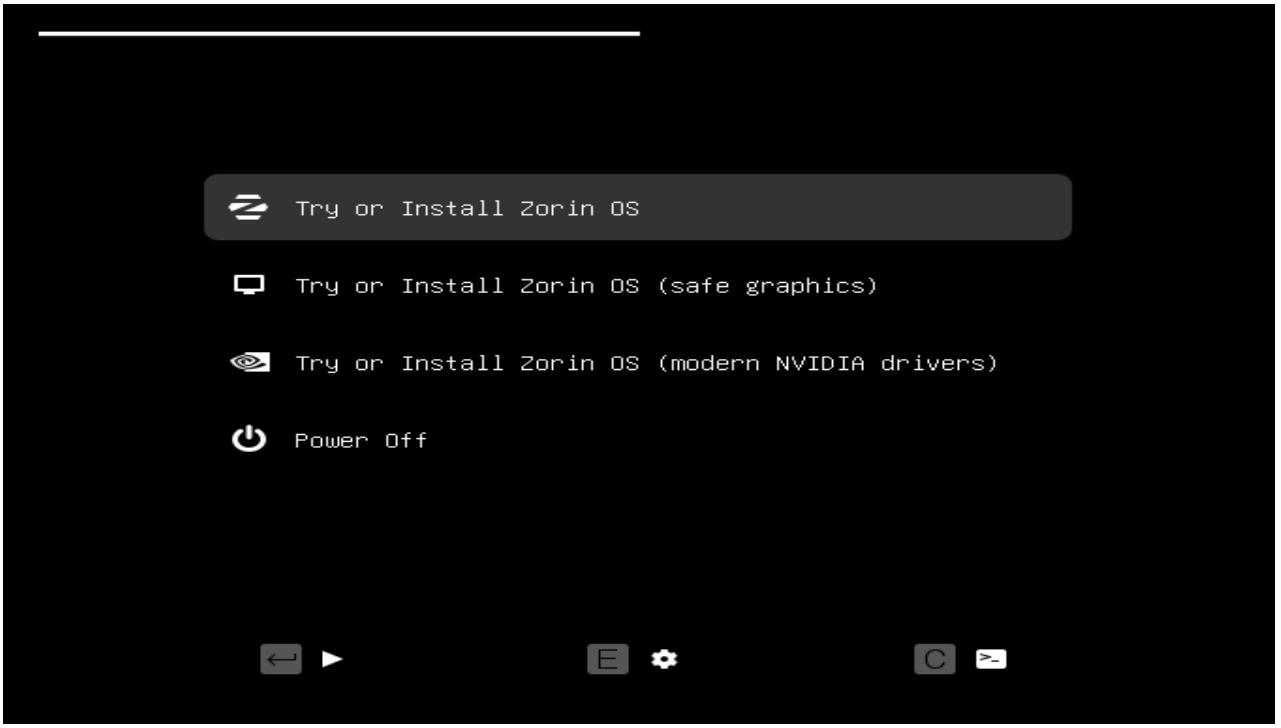
The Unofficial Manual for Zorin 17 Core

1 This is what the initial boot screen should look like before you start.



There are no options to select unlike Zorin 12.x other then selecting ENTER to boot your desired choice or press the TAB key to amend the boot parameters, such as nomodeset, acpi=off etc. During boot you should see the ‘Z’ logo briefly, then this screen:

If you wait for the integrity check to complete, you will see this screen on successful completion:

Next you will see the new 'ZORIN' logo appear, flying in from left to right quickly, letter by letter to make this:

You should eventually see the following image, the default wallpaper:

Then these options appear, together with the login sound:

Notice you get a second bite at the cherry to 'Try Zorin' or 'Install Zorin' – note also in the left pane is a list of languages – choose the one that meets your locale before proceeding – you should still opt for 'Try Zorin' to discover how well it is compatible with your system. Please bear in mind that Hardware is generally manufactured to Windows™ specifications which is a Closed Source Operating System, which means none of it's code is freely available to alter to meet the needs of GNU/Linux users or their hardware driver needs. You need to click on the 'Try Zorin' button – the screen will momentarily go black and shortly afterward the Desktop appears.

1 2. The Live Desktop – a guided tour.

2 This is the default desktop image (changing the image for something else will be covered later under 'Settings').

2 First up the **'Dash'** (formerly called **'Panel'**) at the bottom of the screen comprises of the Menu (indicated by the ‘Z’) immediately to the right is the **Overview** button, followed by the default Browser, **Firefox** (Flatpak edition), **Files** (formerly Nautilus [File Explorer]), and finally, **Software** channel icon. On the far right is the equivalent, but very much different to, the System Tray that can be found on Windows.

3 **The Dash** (formerly ‘Panel’) - left side.

From left to right we have the **Z Menu**, **Activities Overview, Firefox** (Web Browser), **Files** (File Explorer), **Software** (Application Store).

The Z Menu icon - Left Clicking on this launches the familiar Zorin Menu.

The Activities Overview Icon - left clicking this will show all open Windows on the **Desktop**:

Notice you can see the edge of another screen to the right - this is the second **workspace** allowing you to have a different application open on each workspace which you can easily toggle between. Whilst you are in **Activities Overview** mode you can drag open windows to the next adjacent worksapce. When you do this, you will notice that a third empty workspace is created as indicated by the little windows at the top of the screen as shown at the top of the next page:

You can use the wheel on your mouse to navigate between workspaces, or alternatively, use Ctrl+ Alt+ L or R arrow (cursor) keys.

Firefox - Web browser.

Notice that the Firefox icon on the **Dash** has a line underneath it - this indicates that you have the application open and one window/tab open. Opening a new window will show 2 lines, one long one, a space, and the start of another line.
Floating your mouse cursor over the Firefox icon will create two tiny pop-up windows - move your pointer to the window you wish to view.

Files (File Explorer):

Software - This is where you can install applications.

But this is not the only source of **Software**. Other options include downloading applications from the official website of an application producer, or an alternative option, if you don’t wish to use sandboxed applications which are either **flatpak**, **snap**, from the **Software** application or an **App Image**, you can use **Synaptic (Package Manager**) [but there are some applications in the Software channel that offer more than one option, including APT packages - the latest Zorin release is a big improvement in this area.] My preferred method of installing **Synaptic** is via the terminal (Ctrl+ Alt+ T or Menu | Utilities | Terminal).

```
sudo apt install synaptic
```

You will need to supply your login password to elevate yourself to root, or better still, when you install Zorin, create an ‘administrator’ account, then yourself as a **Standard** user - installing applications would then need the password of the ‘administrator’ account, just like that other OS! You can stay in the terminal to launch **Synaptic** because you have already elevated the terminal to ‘root’ privileges, just enter - sudo synaptic.
When you launch **Synaptic Package Manager** it brings up this interface:

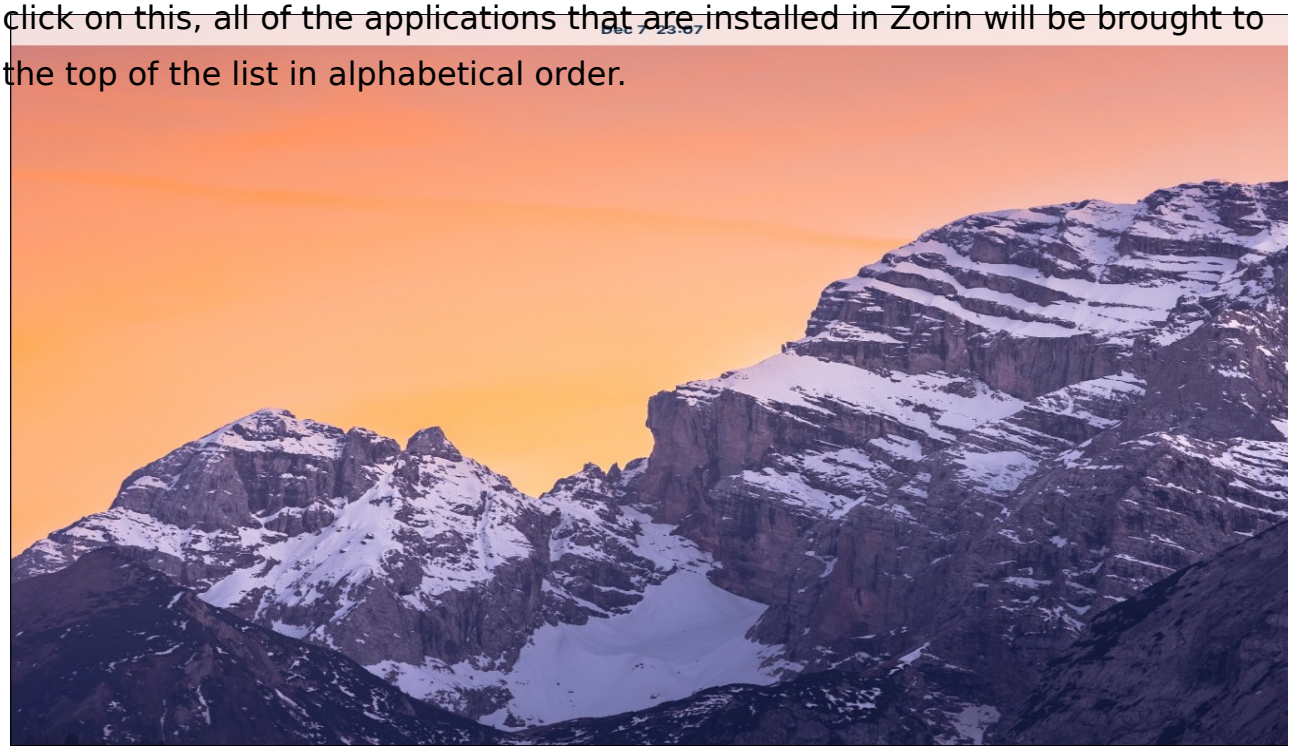
Synaptic is split into 3 main panes, with a Menu Bar at the top of the window which has ‘Reload’, ‘Mark All Upgrades’ and ‘Apply’ (greyed out) buttons beneath it. To the far right on the same line as these buttons, ‘Properties’ (greyed out), and ‘Search’ (magnifying glass).
The left hand pane comprises of different **Sections**, laid out in alphabetical order. Above all the sections is the all encompassing word **All** which basically that if you placed your cursor in the pane to the right, you would have a very long scrolling time to view all the available applications. By far the easiest method is to use the **Search** function (please remember that any Software application only looks for GNU/Linux applications, not Windows or Mac or Android apps!) When you select an application with the left mouse button in the top right pane, a description of that application appears in the bottom right pane. If you wish to install an application that you are interested in having, right-click the little square to the left of the application name which will bring up these options:

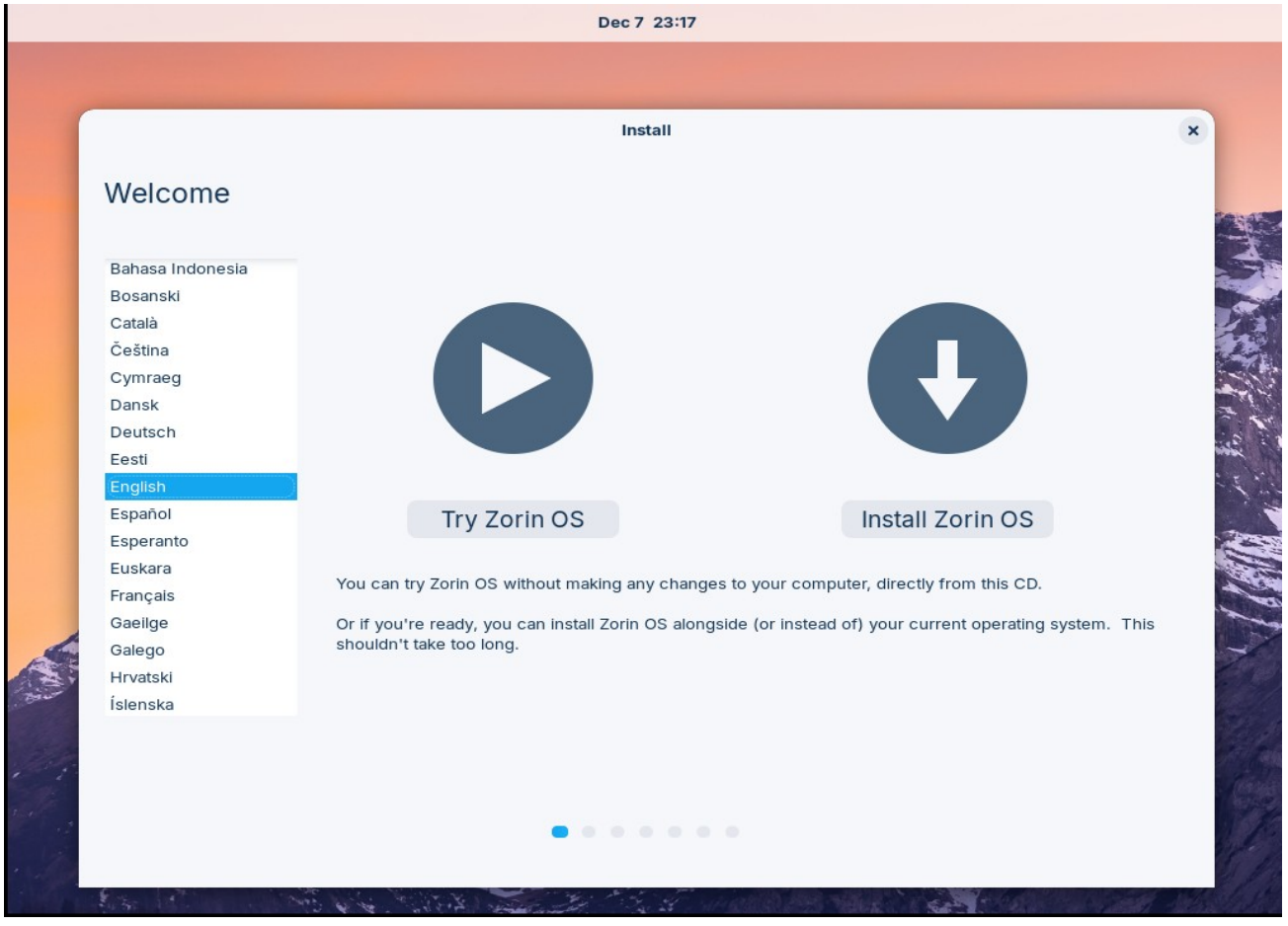
To install, select **Mark for Installation**, then click on the **Apply** button - this will begin the installation process.

Check finished: no errors found.

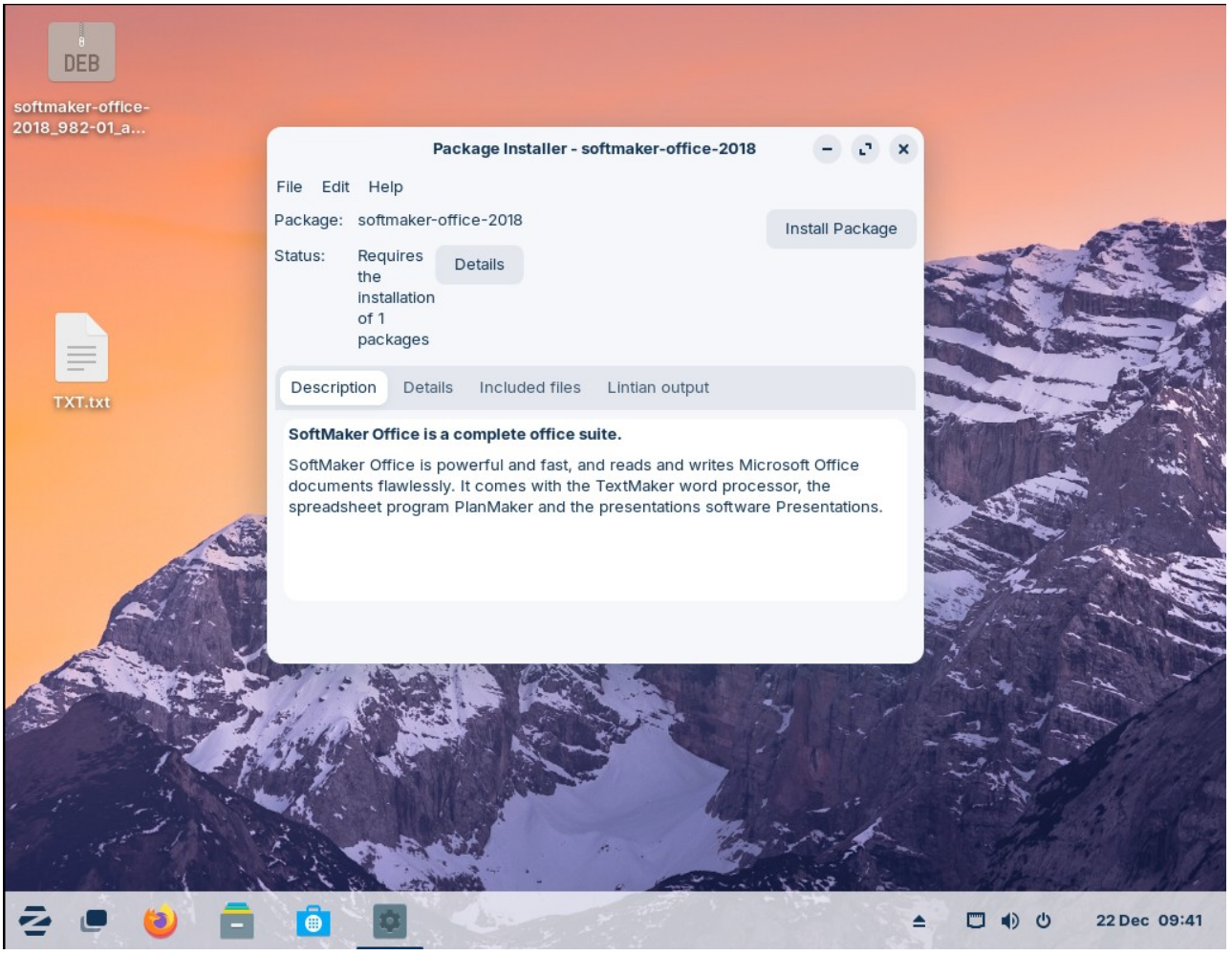
ZORIN

At the very top of the column of little squares you will see the letter **S**. If you click on this, all of the applications that are installed in Zorin will be brought to the top of the list in alphabetical order.

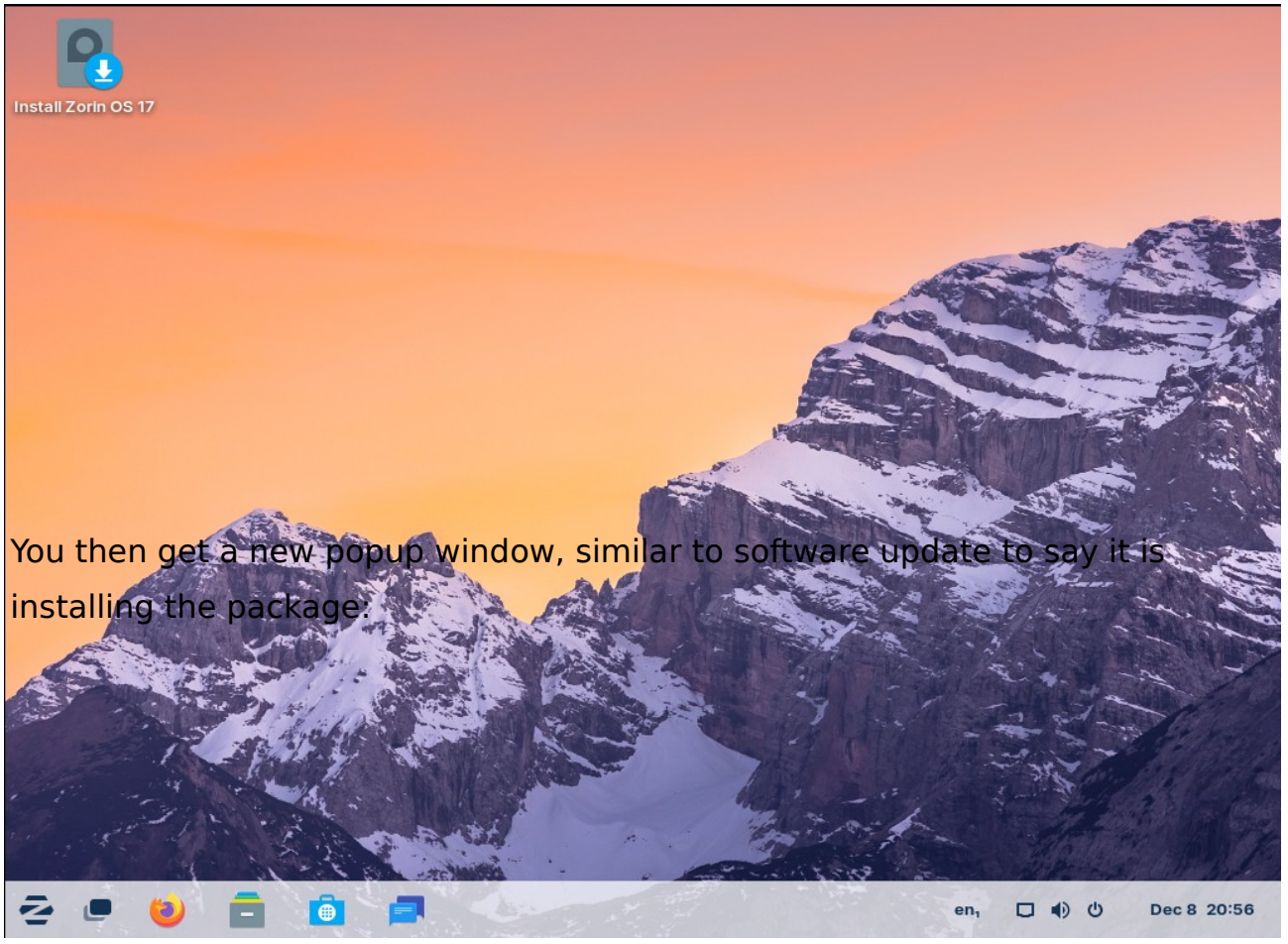




For 3rd party applications, for example, FreeOffice from SoftMaker or the paid version, SoftMakerOffice 2024 Professional .deb file, then a useful utility is **gdebi** (gnome .deb installer).


DEB
softmaker-office-2018_982-01_a...
TXT.txt
Package Installer - softmaker-office-2018
File Edit Help
Package: softmaker-office-2018
Install Package
Status: Requires the installation of 1 packages
Details
Description Details Included files Lintian output
SoftMaker Office is a complete office suite.
SoftMaker Office is powerful and fast, and reads and writes Microsoft Office documents flawlessly. It comes with the TextMaker word processor, the spreadsheet program PlanMaker and the presentations software Presentations.
22 Dec 09:41

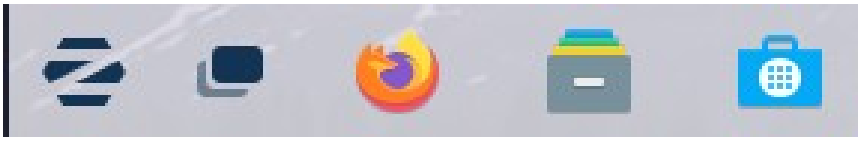
The nice thing about **gdebi** is that it checks that all dependencies are present, and it also lets you know if additional packages are going to be installed. When you click on the **Install Package** button you will be asked for your password to elevate you to ‘root’, unless you have made a separate ‘administrator’ account, then you would enter that password.

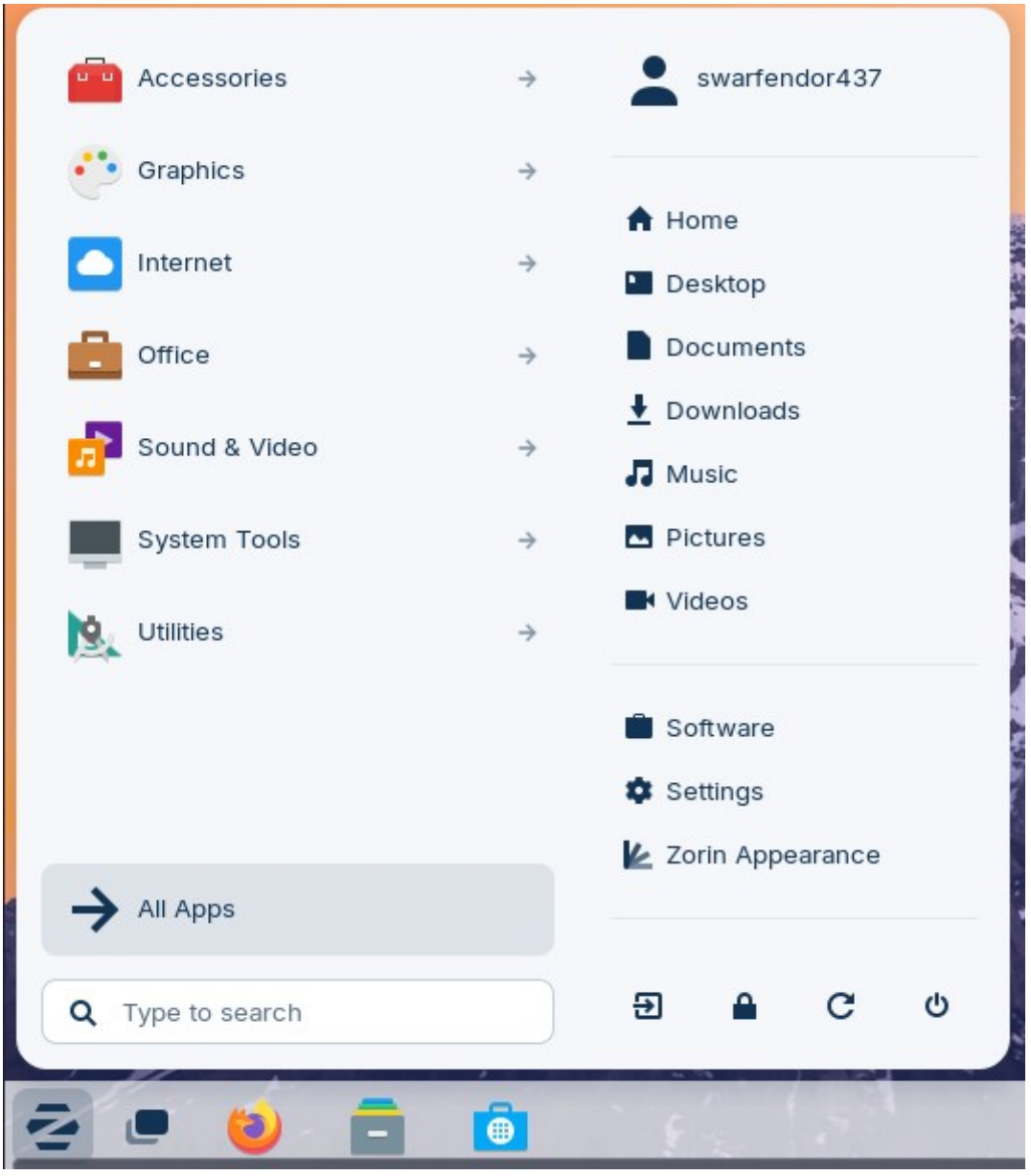


You then get a new popup window, similar to software update to say it is installing the package:

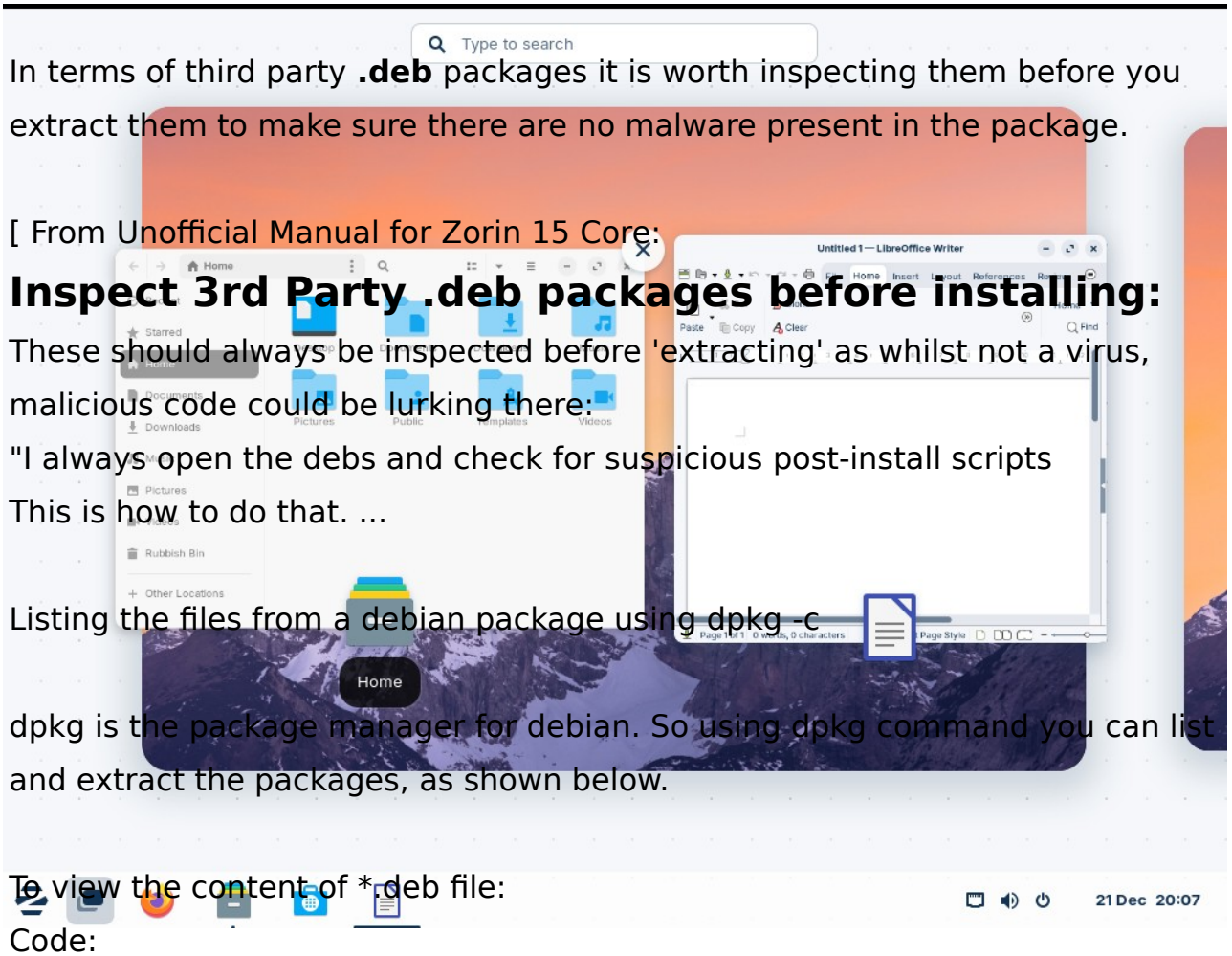
Once complete, you will be notified:

After you click on the ‘Close’ button the gdebi interface shows this:




Accessories
Graphics
Internet
Office
Sound & Video
System Tools
Utilities
All Apps
Type to search
swarfendor437
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Software
Settings
Zorin Appearance

So if the application did not install correctly first time, you can select **Reinstall Package** or if you have changed your mind, **Remove Package**.



In terms of third party **.deb** packages it is worth inspecting them before you extract them to make sure there are no malware present in the package.

[From Unofficial Manual for Zorin 15 Core:

Inspect 3rd Party .deb packages before installing:

These should always be inspected before 'extracting' as whilst not a virus, malicious code could be lurking there:
"I always open the debs and check for suspicious post-install scripts
This is how to do that. ...

Listing the files from a debian package using dpkg -c

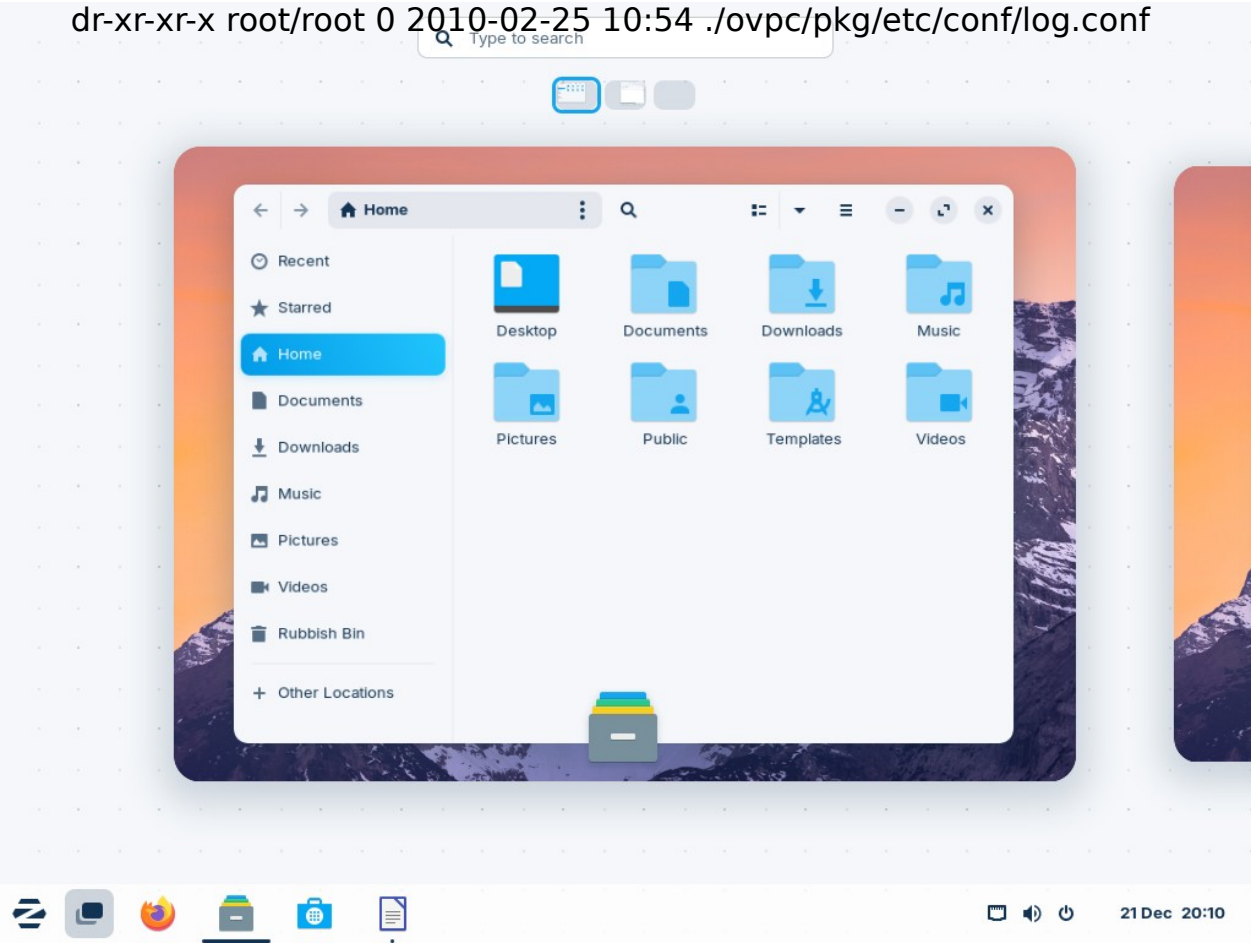
dpkg is the package manager for debian. So using dpkg command you can list and extract the packages, as shown below.

To view the content of *.deb file:
Code:

:

```
$ dpkg -c ovpc_1.06.94-3_i386.deb
dr-xr-xr-x root/root 0 2010-02-25 10:54 ./
dr-xr-xr-x root/root 0 2010-02-25 10:54 ./ovpc/
dr-xr-xr-x root/root 0 2010-02-25 10:54 ./ovpc/pkg/
dr-xr-xr-x root/root 0 2010-02-25 10:54 ./ovpc/pkg/lib/
dr-xr-xr-x root/root 0 2010-02-25 10:48 ./ovpc/pkg/lib/header/
-r-xr-xr-x root/root 130 2009-10-29 17:06 ./ovpc/pkg/lib/header/libov.so
.
.
.
-r-xr-xr-x root/root 131 2009-10-29 17:06 ./ovpc/pkg/etc/conf
```

dr-xr-xr-x root/root 0 2010-02-25 10:54 ./ovpc/pkg/etc/conf/log.conf



Extracting the files from a debian package using dpkg -x

Use dpkg -x to extract the files from a deb package as shown below.

Code:

```
:
$ dpkg -x ovpc_1.06.94-3_i386.deb /tmp/ov
$ ls /tmp/ov
ovpc
```

DEB files are ar archives, which always contains the three files — debian-binary, control.tar.gz, and data.tar.gz. We can use ar command and tar command to extract and view the files from the deb package, as shown below.

First, extract the content of *.deb archive file using ar command.

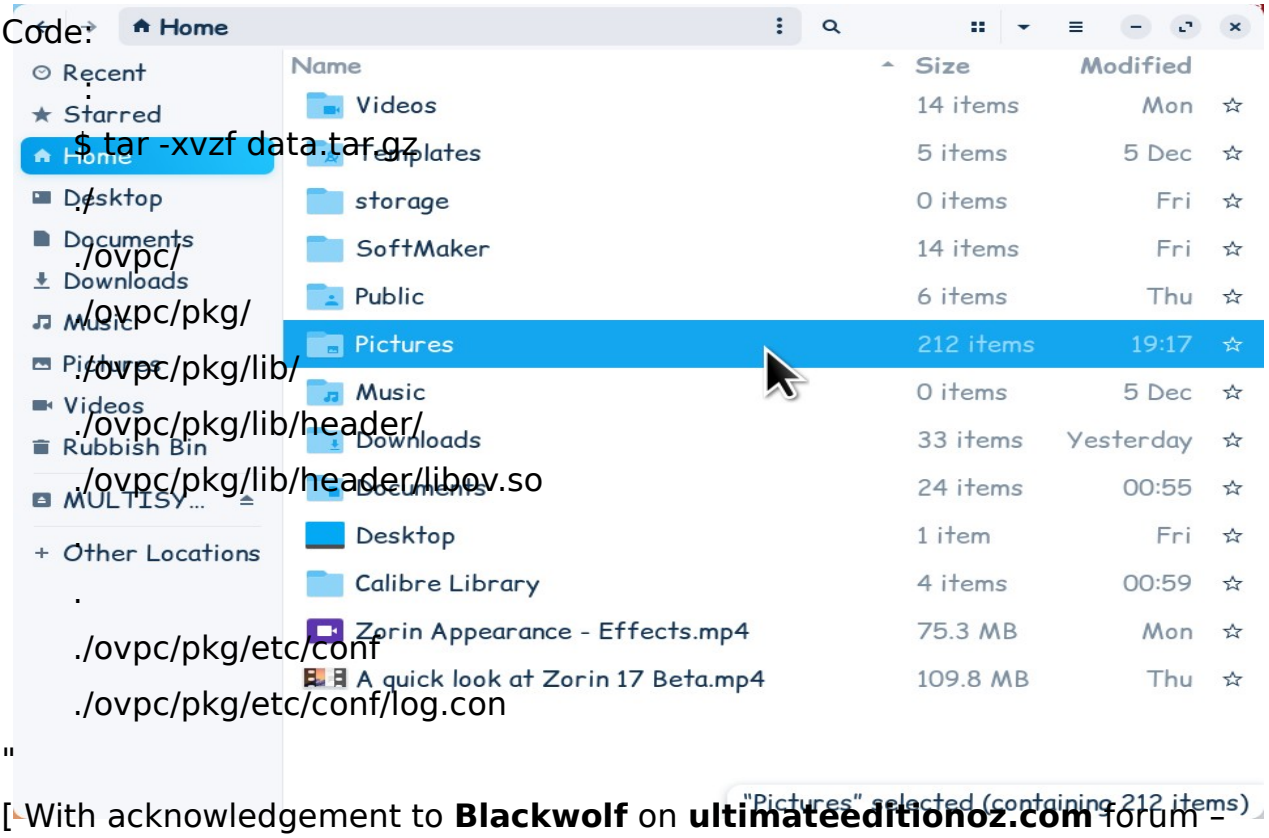
Code:

```
:
$ar -vx ovpc_1.06.94-3_i386.deb
x - debian-binary
x - control.tar.gz
x - data.tar.gz
$
```

Next, extract the content of data.tar.gz file as shown below.

Code:

```
$ tar -xvzf data.tar.gz
./
./ovpc/
./ovpc/pkg/
./ovpc/pkg/lib/
./ovpc/pkg/lib/header/
./ovpc/pkg/lib/header/libov.so
.
./ovpc/pkg/etc/conf
./ovpc/pkg/etc/conf/log.con
"
```



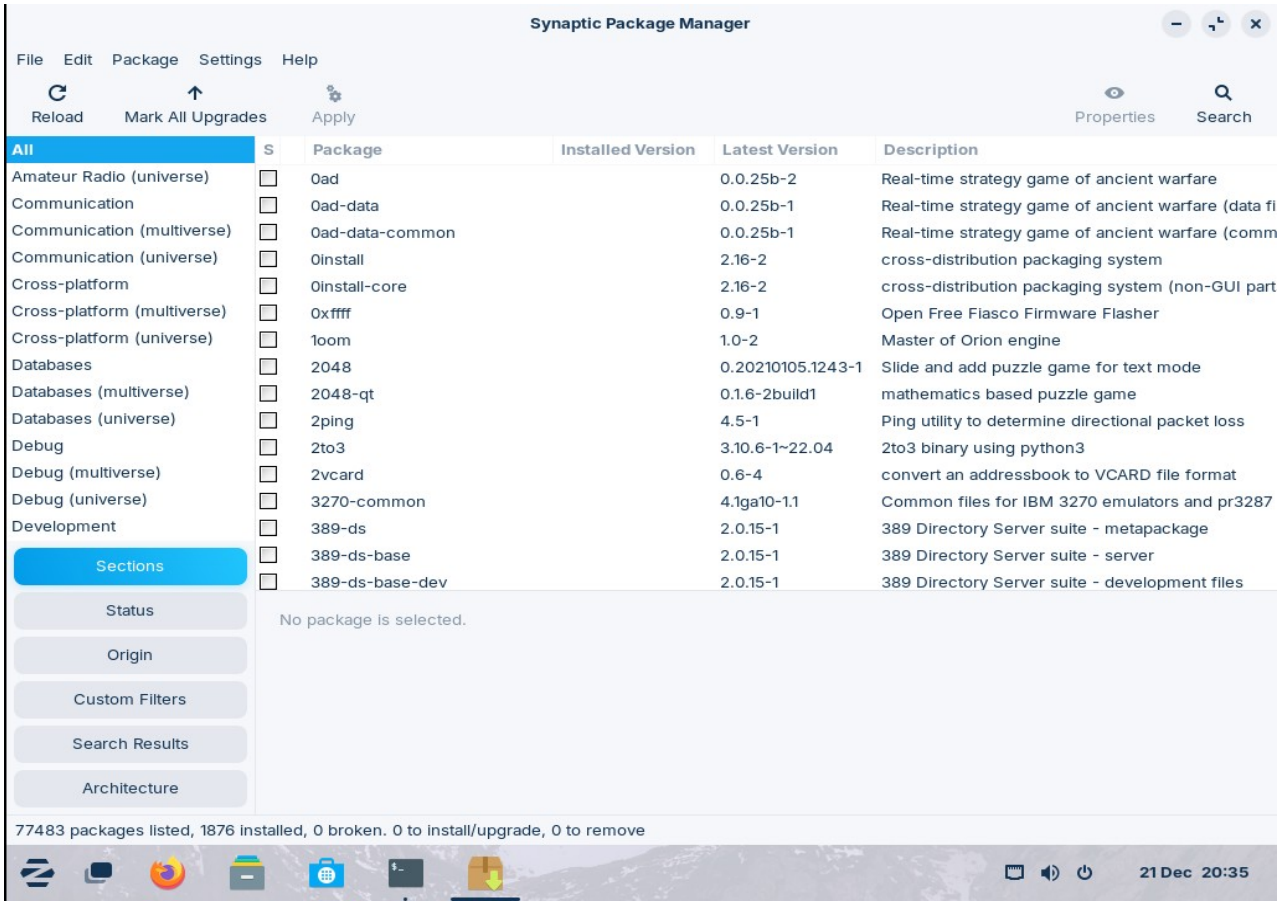
[With acknowledgement to **Blackwolf** on **ultimateeditionoz.com** forum – sadly the forum is no more.]

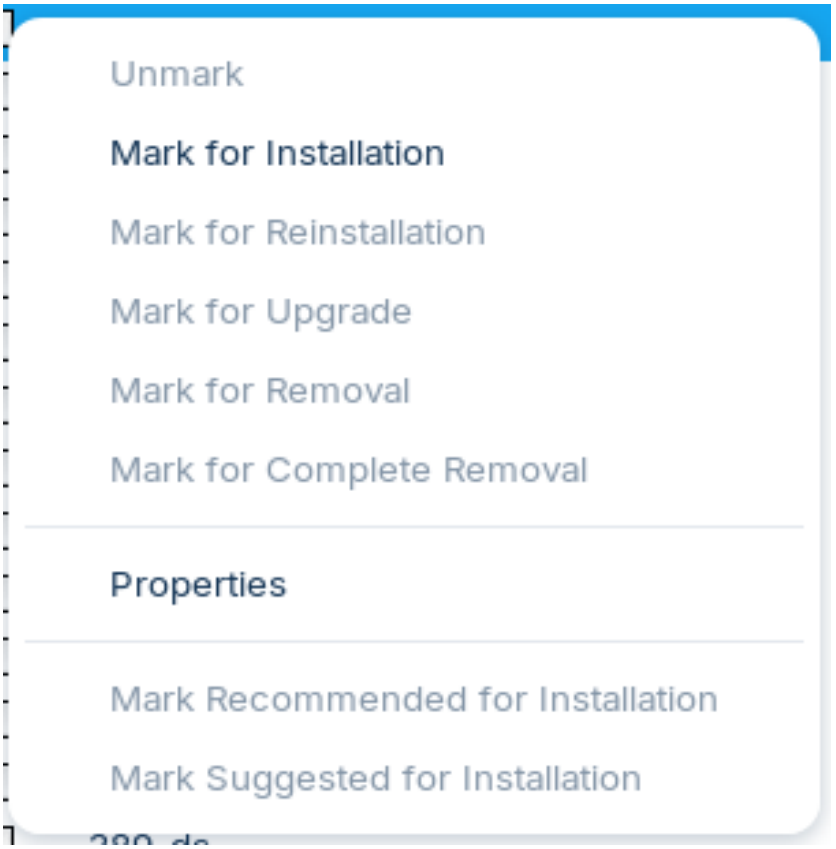
There was an instance of a GNU/Linux theme uploaded to gnome-look.org called Ubundows that had not been checked by Admin for that site; the file once extracted executed 'Unix' commands to wipe the hard drive clean of all content - YOU HAVE BEEN WARNED!

[End of extract from Unofficial Manual for Zorin 15 Core.]

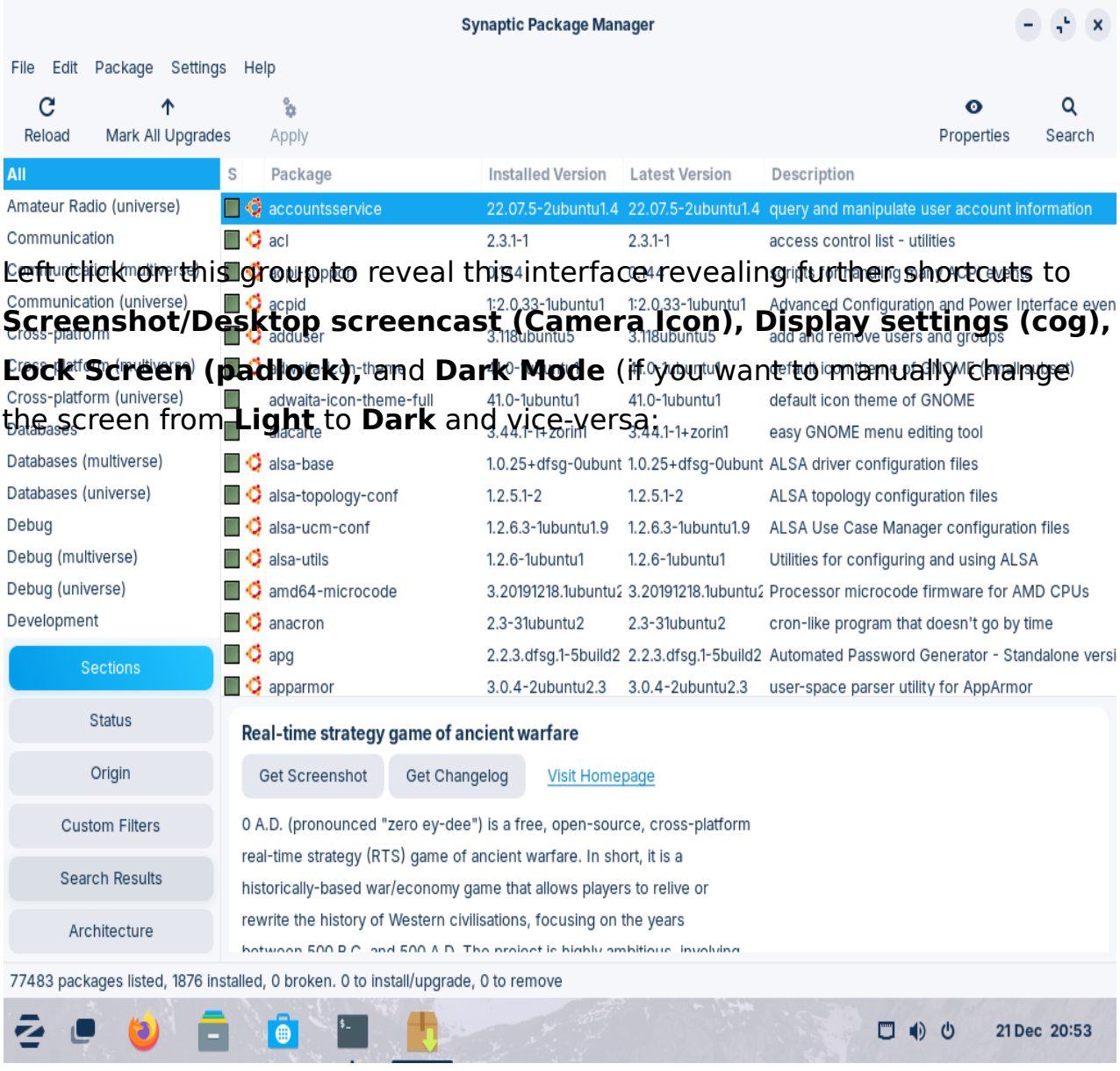
Dash - the right side, the **System Tray**.

Starting on the left we have a triangle pointing upwards with a line underneath.
Left click on this icon to reveal what devices are attached to the machine such as USB drives, with the option to view their contents, or unmount the drive for removal (though I always prefer to play safe and use **Disks** to power off, after unmounting.)




Unmark
Mark for Installation
Mark for Reinstallation
Mark for Upgrade
Mark for Removal
Mark for Complete Removal
Properties
Mark Recommended for Installation
Mark Suggested for Installation

The next item is a group of 3 icons, the group name of which is **Quick Settings**, comprising of **Network, Sound (Audio), Power options.**


Synaptic Package Manager
File Edit Package Settings Help
Reload
Mark All Upgrades
Apply
Properties
Search
All
Amateur Radio (universe)
Communication
Communication (universe)
Cross-platform
Cross-platform (universe)
Databases
Databases (multiverse)
Databases (universe)
Debug
Debug (multiverse)
Debug (universe)
Development
Sections
Status
Origin
Custom Filters
Search Results
Architecture
S
Package
Installed Version
Latest Version
Description
accountsservice 22.07.5-2ubuntu1.4 22.07.5-2ubuntu1.4 query and manipulate user account information
acl 2.3.1-1 2.3.1-1 access control list - utilities
acpid 1:2.0.33-1ubuntu1 1:2.0.33-1ubuntu1 Advanced Configuration and Power Interface even
adduser 3.118ubuntu5 3.118ubuntu5 add and remove users and groups
adwaita-icon-theme-full 41.0-1ubuntu1 41.0-1ubuntu1 default icon theme of GNOME
alacarte 3.44.1-1+zorin1 easy GNOME menu editing tool
alsa-base 1.0.25+dfsg-0ubunt 1.0.25+dfsg-0ubunt ALSA driver configuration files
alsa-topology-conf 1.2.5.1-2 1.2.5.1-2 ALSA topology configuration files
alsa-ucm-conf 1.2.6.3-1ubuntu1.9 1.2.6.3-1ubuntu1.9 ALSA Use Case Manager configuration files
alsa-utils 1.2.6-1ubuntu1 1.2.6-1ubuntu1 Utilities for configuring and using ALSA
amd64-microcode 3.20191218.1ubuntu2 3.20191218.1ubuntu2 Processor microcode firmware for AMD CPUs
anacron 2.3-31ubuntu2 2.3-31ubuntu2 cron-like program that doesn't go by time
apg 2.2.3.dfsg.1-5build2 2.2.3.dfsg.1-5build2 Automated Password Generator - Standalone versi
apparmor 3.0.4-2ubuntu2.3 3.0.4-2ubuntu2.3 user-space parser utility for AppArmor
Real-time strategy game of ancient warfare
Get Screenshot
Get Changelog
Visit Homepage
0 A.D. (pronounced "zero ey-dee") is a free, open-source, cross-platform real-time strategy (RTS) game of ancient warfare. In short, it is a historically-based war/economy game that allows players to relive or rewrite the history of Western civilisations, focusing on the years
77483 packages listed, 1876 installed, 0 broken. 0 to install/upgrade, 0 to remove
21 Dec 20:53

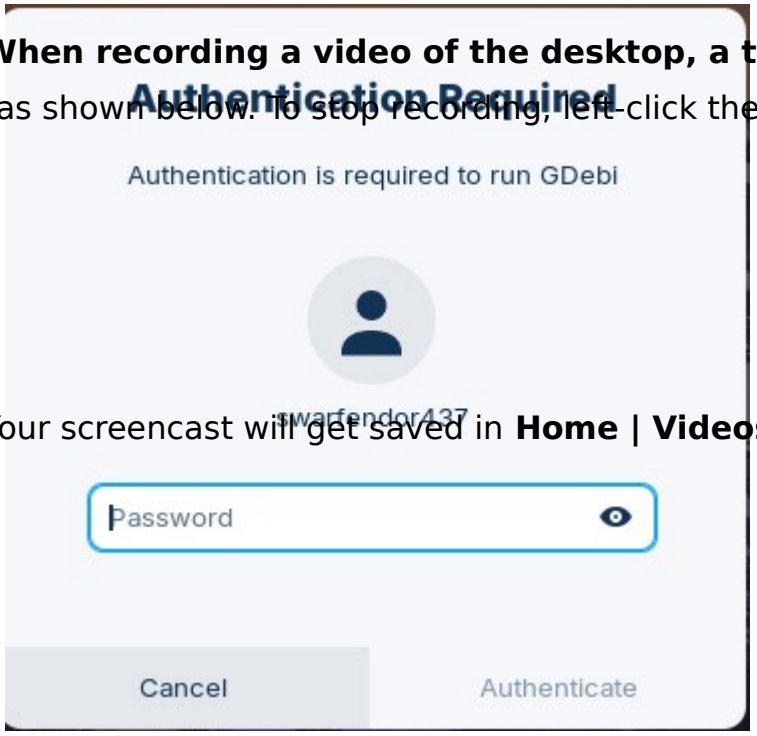
Left click on this group to reveal this interface revealing further shortcuts to **Screenshot/Desktop screencast (Camera Icon), Display settings (cog), Lock Screen (padlock),** and **Dark Mode** (if you want to manually change the screen from **Light** to **Dark** and vice-versa;

Selecting the **Camera** icon found top-left of the interface, launches the Screenshot application interface (can also be launched via Search bar on Menu):

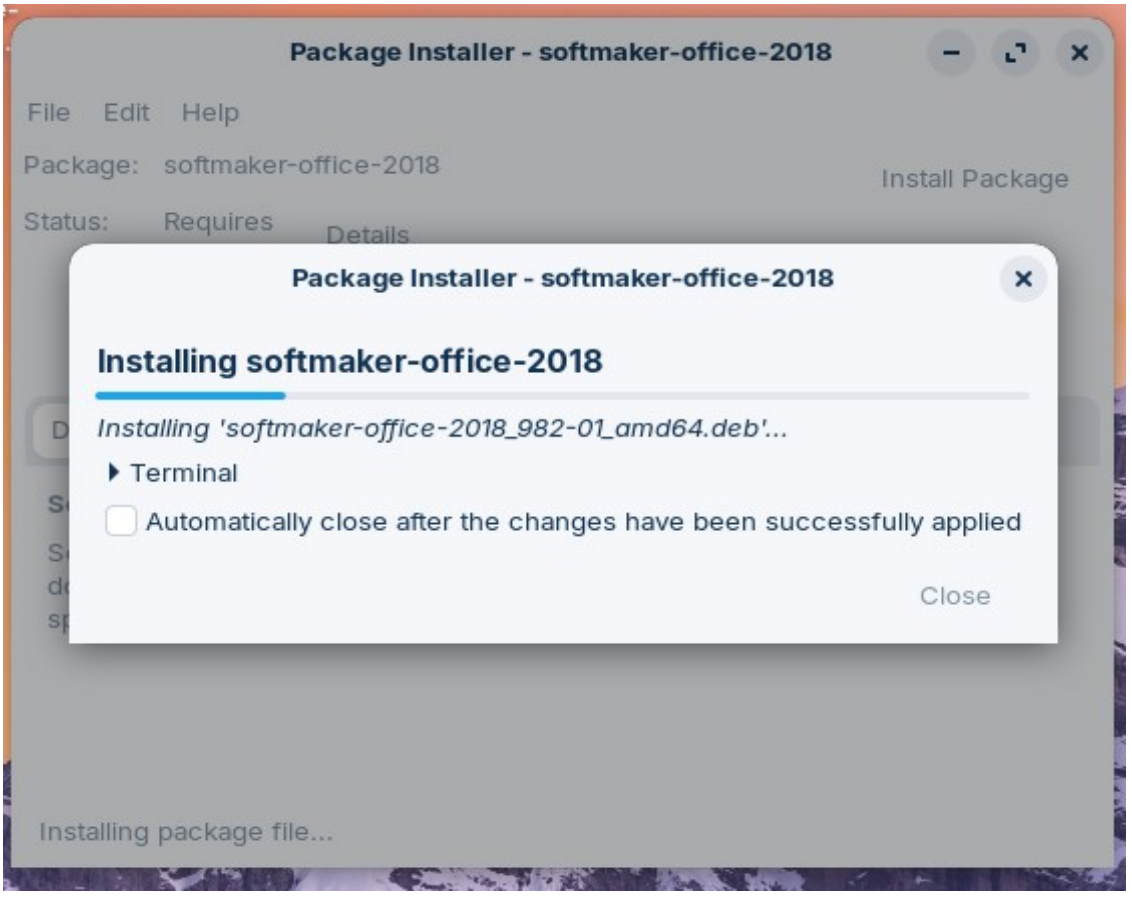
By default, the first option is to take a screenshot of a selected area that you wish to capture, and if the area is not in the part of the screen you want the screenshot to be taken you can move the highlighted square’s corners by dragging them with the mouse where you want the content of the screen to be captured. Notice also the group of 2 icons bottom left - the default setting is to take a still shot, the next option is to make a video of the desktop, a screencast. To take a snapshot of the desktop using the camera function, or to start capturing a video, you left click on the large black circle which has a black ring around it.

The pointer bottom right is not selected - select it if you want the pointer to be captured in the screenshot/video capture. Your captured still image of the area of the desktop or Desktop selection is saved in **Home | Pictures | Screenshots**.

4 **When recording a video of the desktop, a timer shows up in the Dash** as shown below. To stop recording, left-click the red box with the timer.

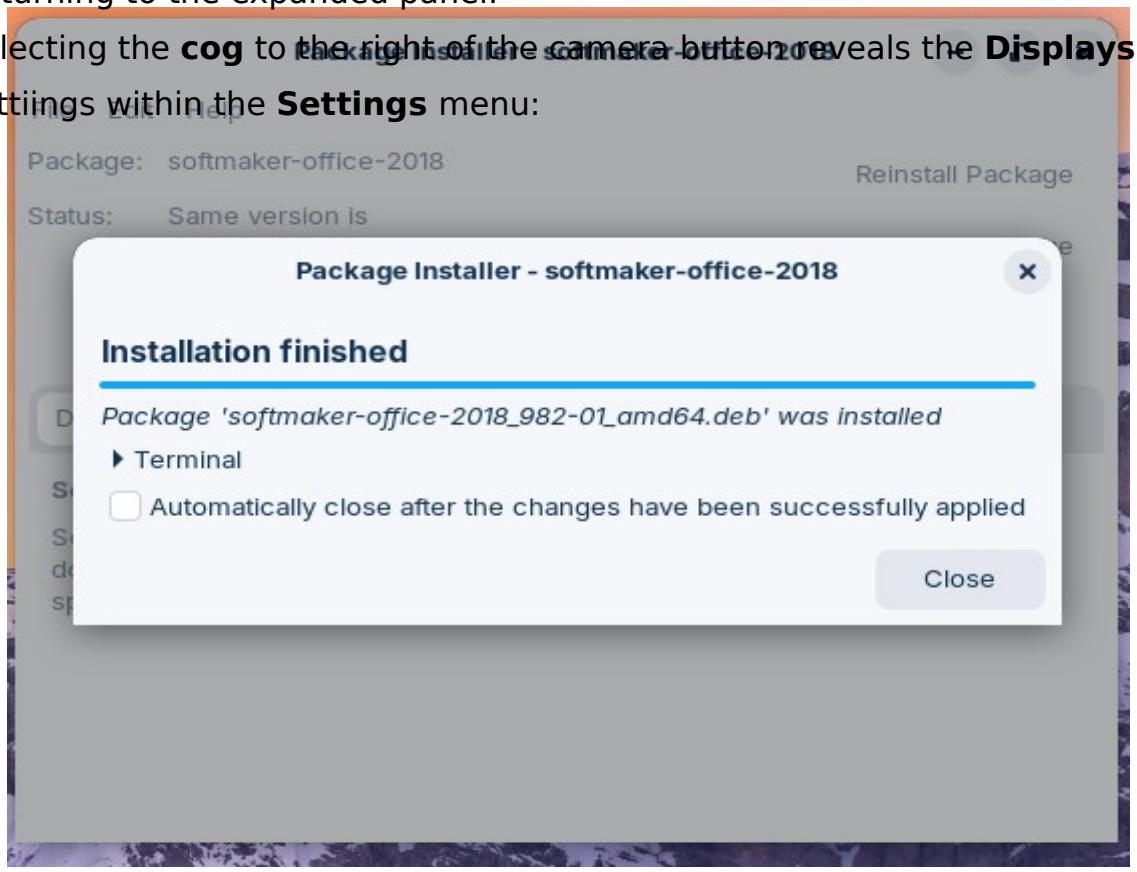


5 Your screencast will get saved in **Home | Videos | Screencasts**

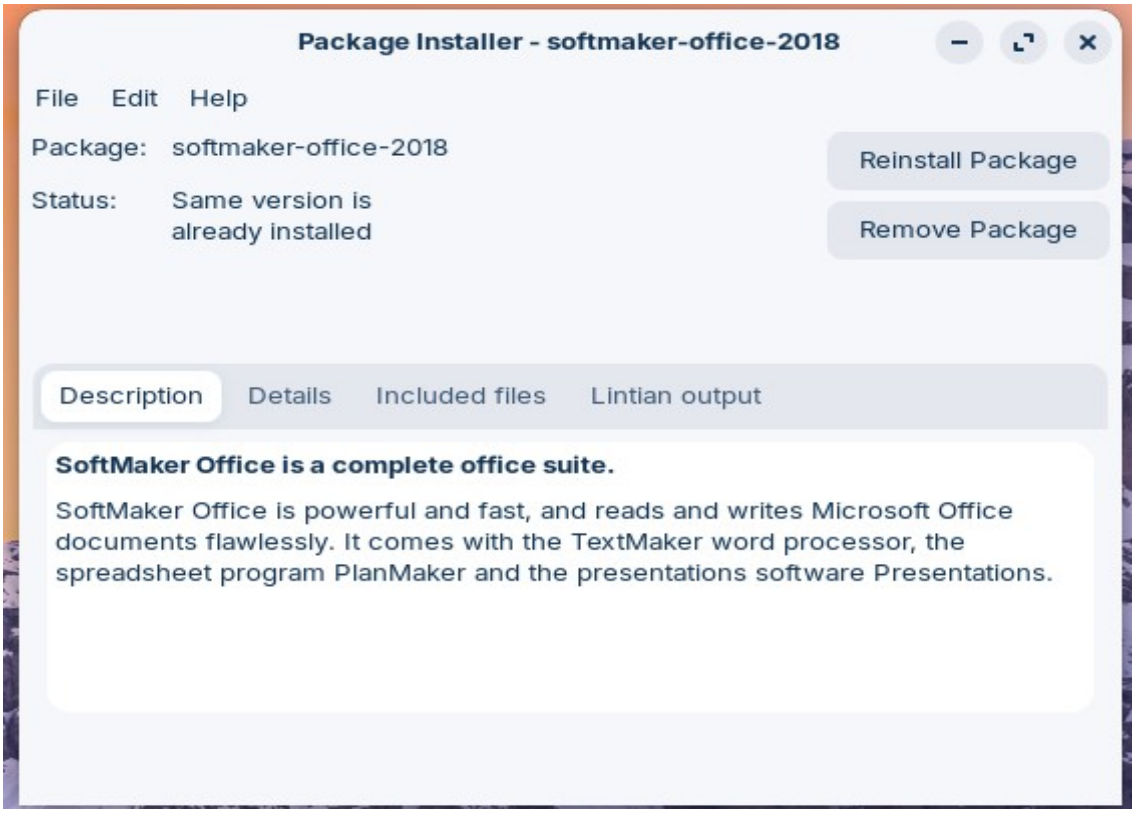


Returning to the expanded panel:

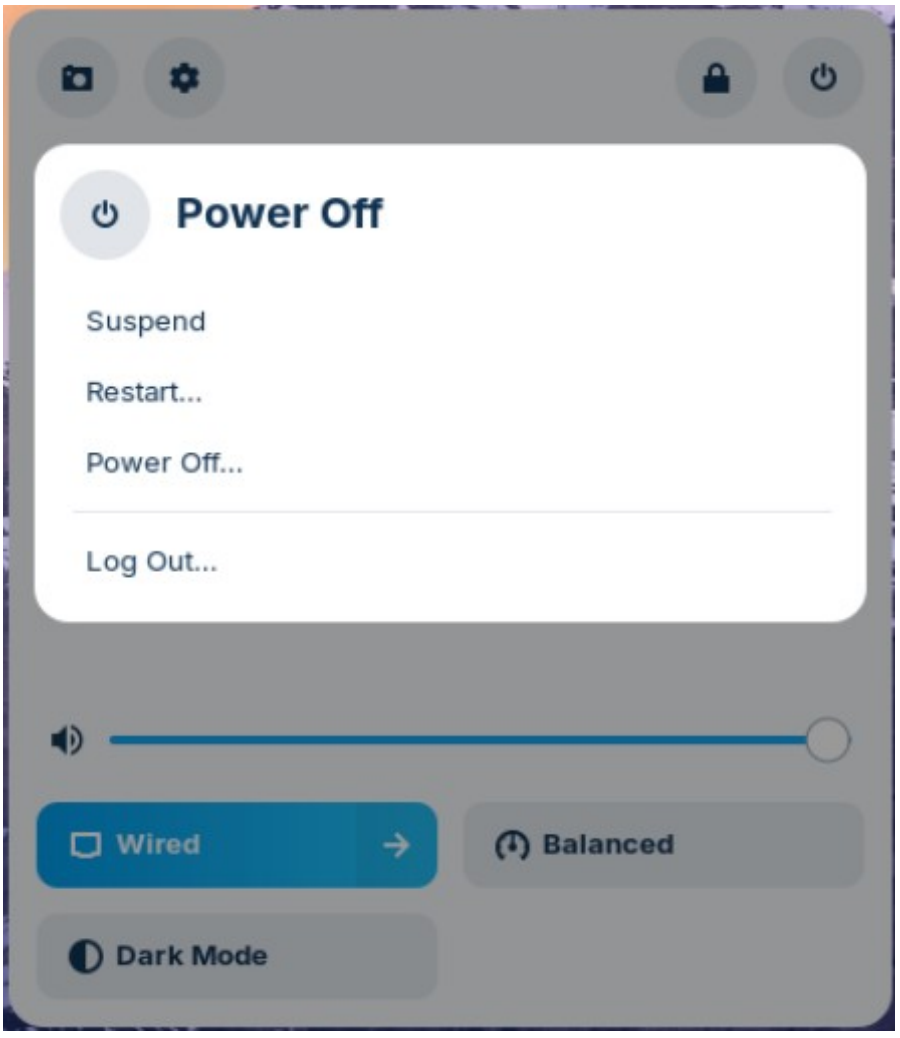
Selecting the **cog** to the right of the camera button reveals the **Displays** settiings within the **Settings** menu:



Selecting the **Padlock** icon, activates the **Screen Lock.**


Package Installer - softmaker-office-2018
File Edit Help
Package: softmaker-office-2018
Status: Same version is already installed
Reinstall Package
Remove Package
Description Details Included files Lintian output
SoftMaker Office is a complete office suite.
SoftMaker Office is powerful and fast, and reads and writes Microsoft Office documents flawlessly. It comes with the TextMaker word processor, the spreadsheet program PlanMaker and the presentations software Presentations.

Selecting the **Power** icon gives you the following options:



To close this window, just press **Esc** on the keyboard.

Using the left mouse button and holding the white circle on the **Speaker** line

and dragging to the left decreases system volume, to the right, increases the system volume.

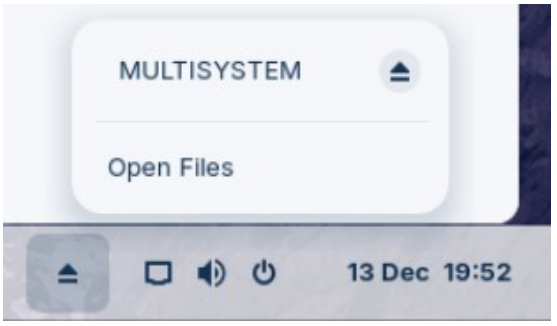
The blue bar with the **Network** icon identifies the connection as being **Wired**. If you click on the part which has the **Network** icon and word **Wired**, it disconnects you from the network, i.e., turns network connection off. Selecting the arrow on the right reveals the following:

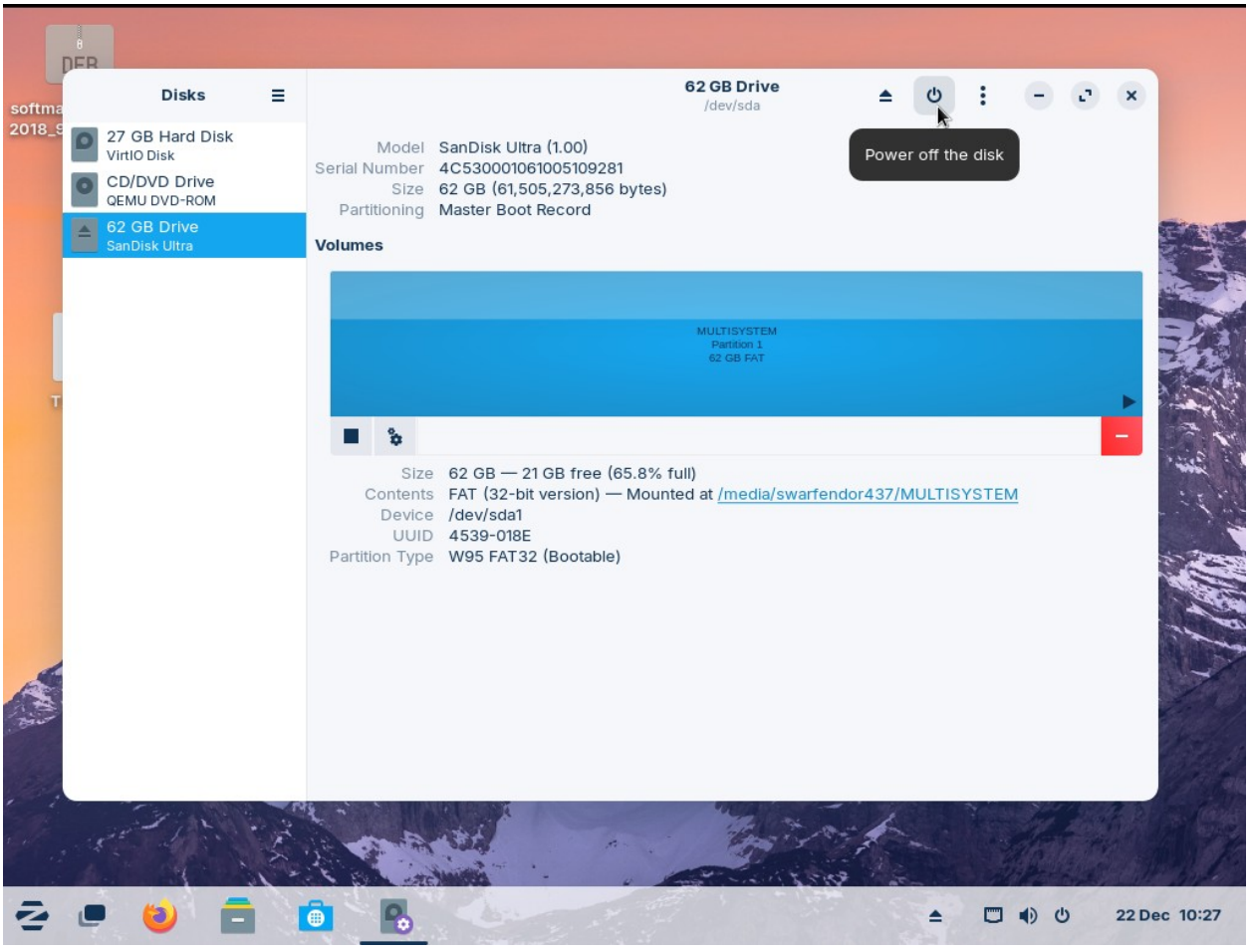
Selecting **Wired Settings** takes you to the **Network** section of **Settings.**
To the right of the **Network** ‘bar’ can be seen the greyed out bar with the word **Balanced**. This is the quick setting for **Power Management**. Selecting this item changes the setting from **Balanced** to **Power Saver.**
Lastly, the greyed out bar with the symbol of dark and light with the words **Dark Mode** to the right is an instant switch from the default **Light Mode** to **Dark Mode** and vice-versa.

6 The last item of the **System Tray** is the **Date & Time** section. Right-click this part of the **System Tray** and you will reveal, **Calendar, World Clocks** (you have to add Cities in the Clocks application to see these), and **Weather** (you will need to add your location to the **Weather** application in **Accessories** before you can see it here:

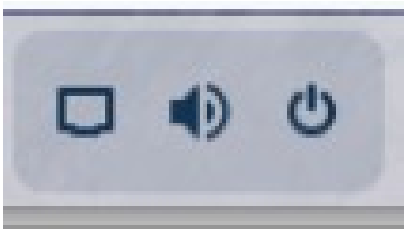
a. The Zorin Menu and its sub-menus:

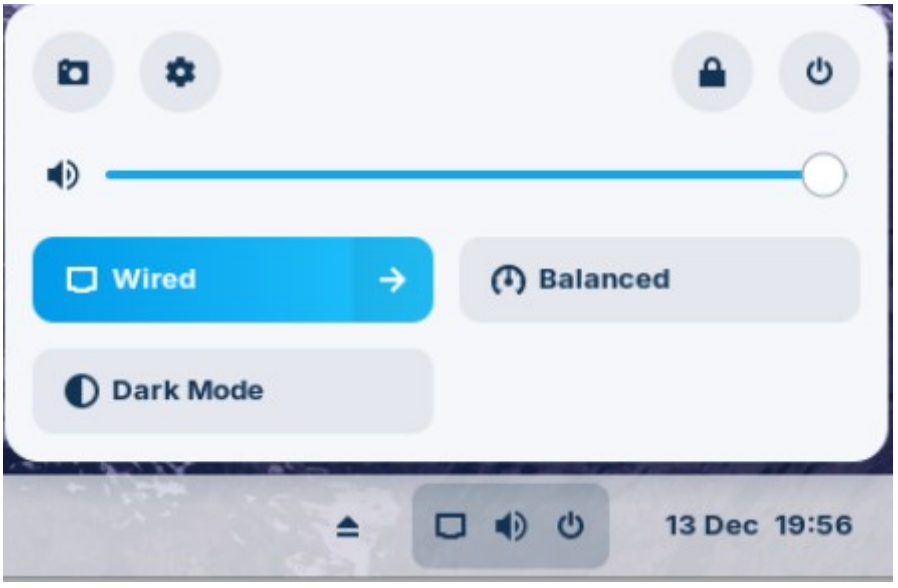
The default **Menu** of Zorin will be familiar to a lot of Windows migrators, similar to that of Windows 7 with Applications listed on the left and Personal Folders and System Settings to the right and a 'search' bar at the bottom:





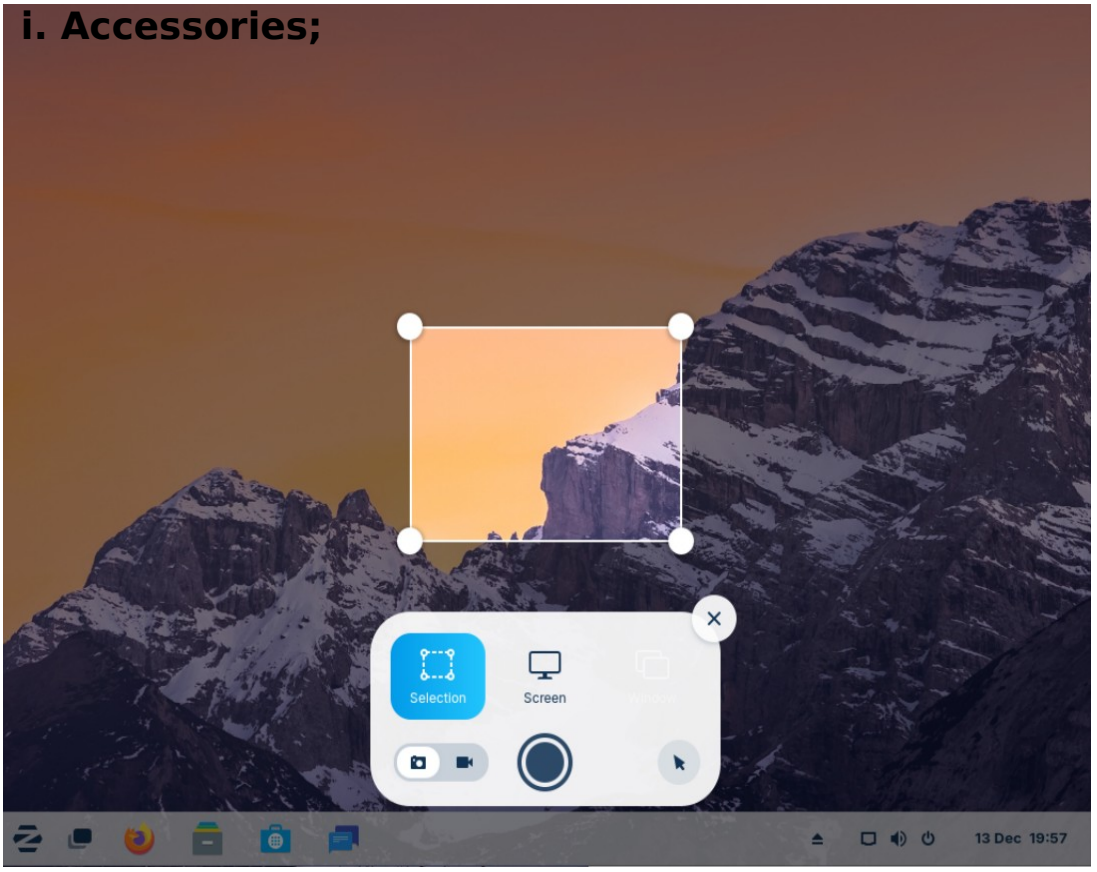
7 The key sub menus are: **Accessories, Graphics, Internet, Office, Sound & Video, System Tools, Utilities.**





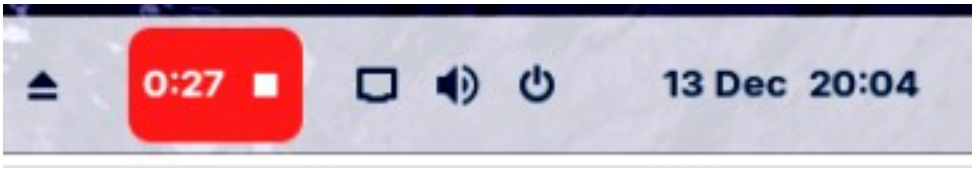
1 Sub-menus:

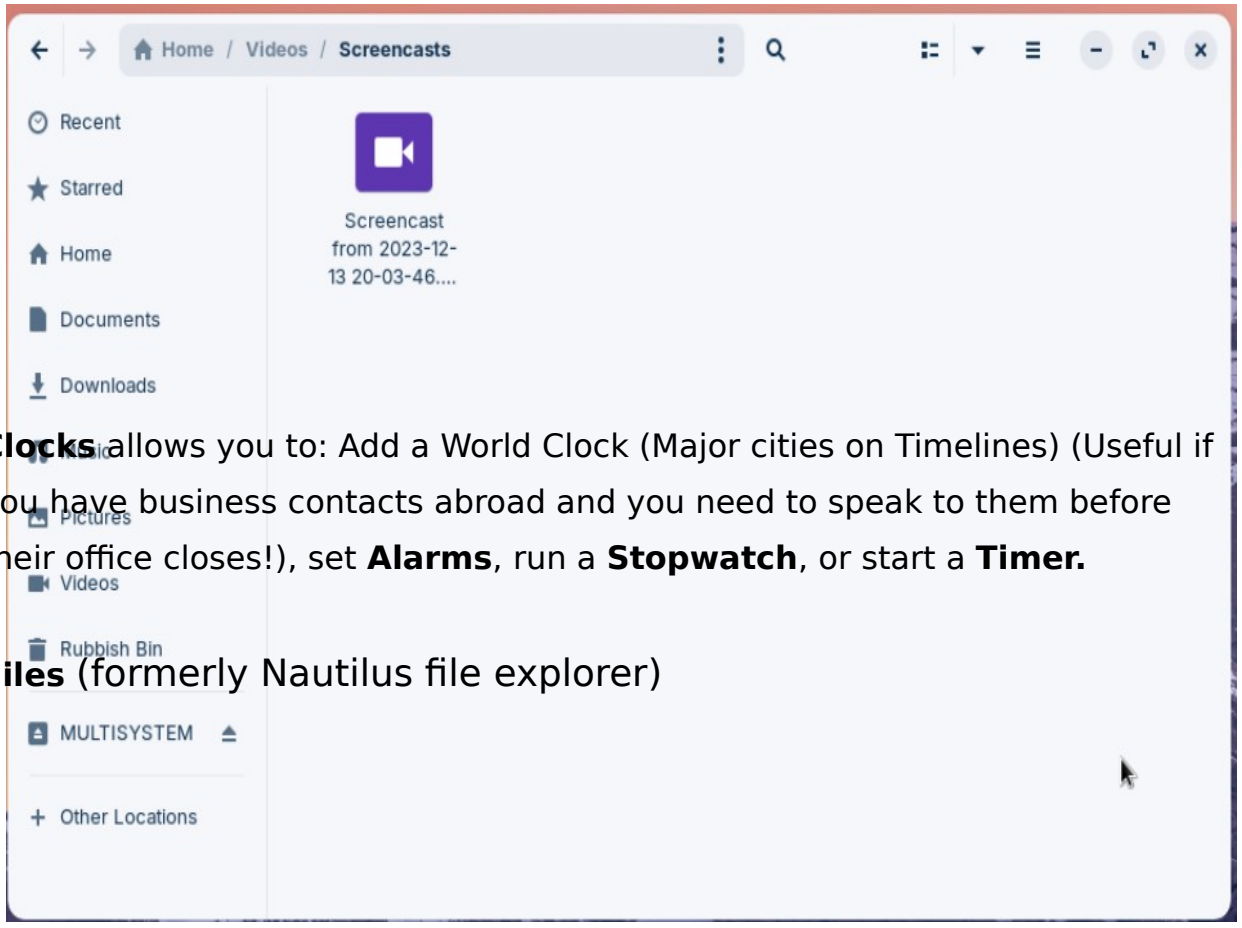
8 i. Accessories;



Here we have **Clocks, Files, Text Editor** (gedit)**, Weather** (On the old version you needed to enter a sub-district of your City, now it will accept City entered, provided it is in the Weather provider’s Database.)

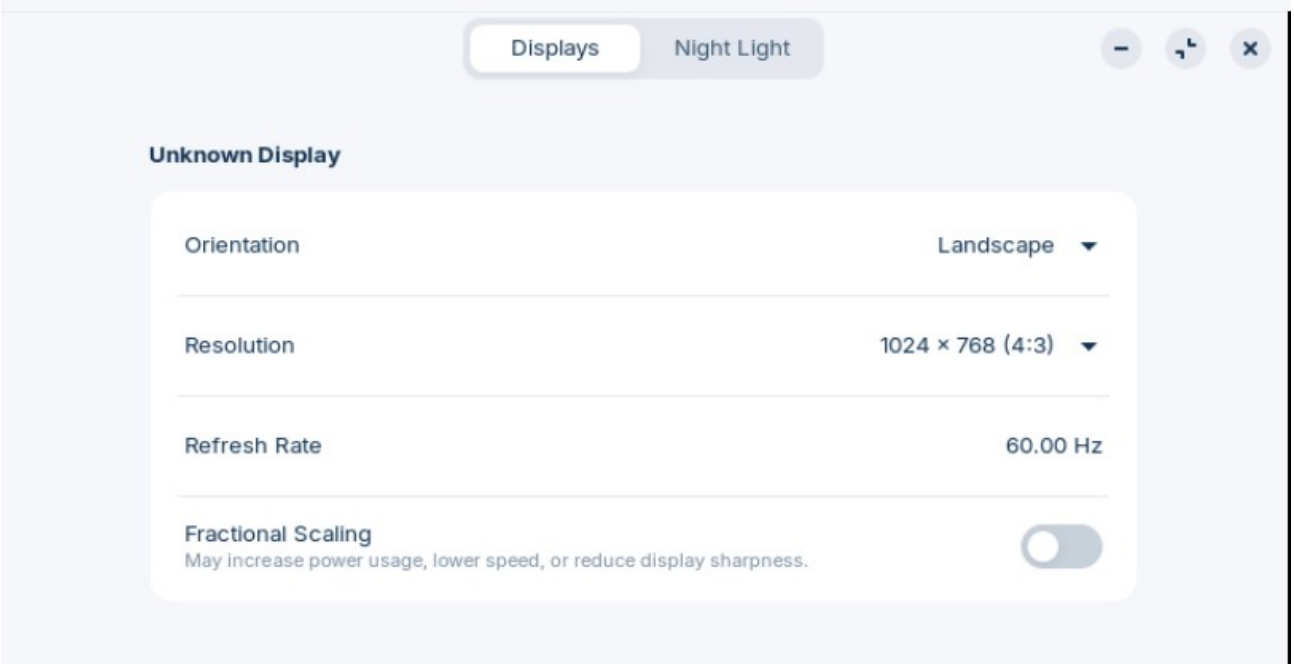
Clocks

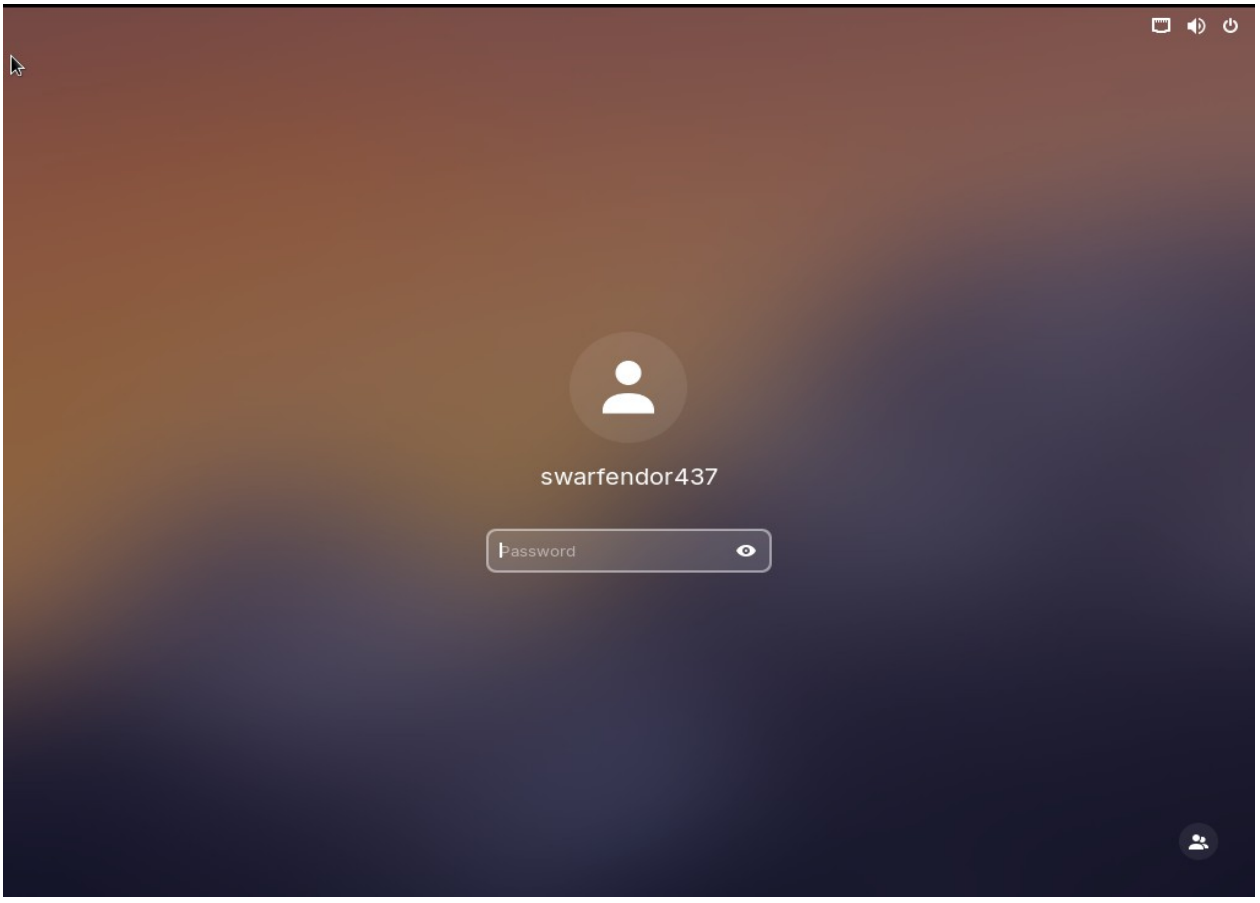




Clocks allows you to: Add a World Clock (Major cities on Timelines) (Useful if you have business contacts abroad and you need to speak to them before their office closes!), set **Alarms**, run a **Stopwatch**, or start a **Timer.**

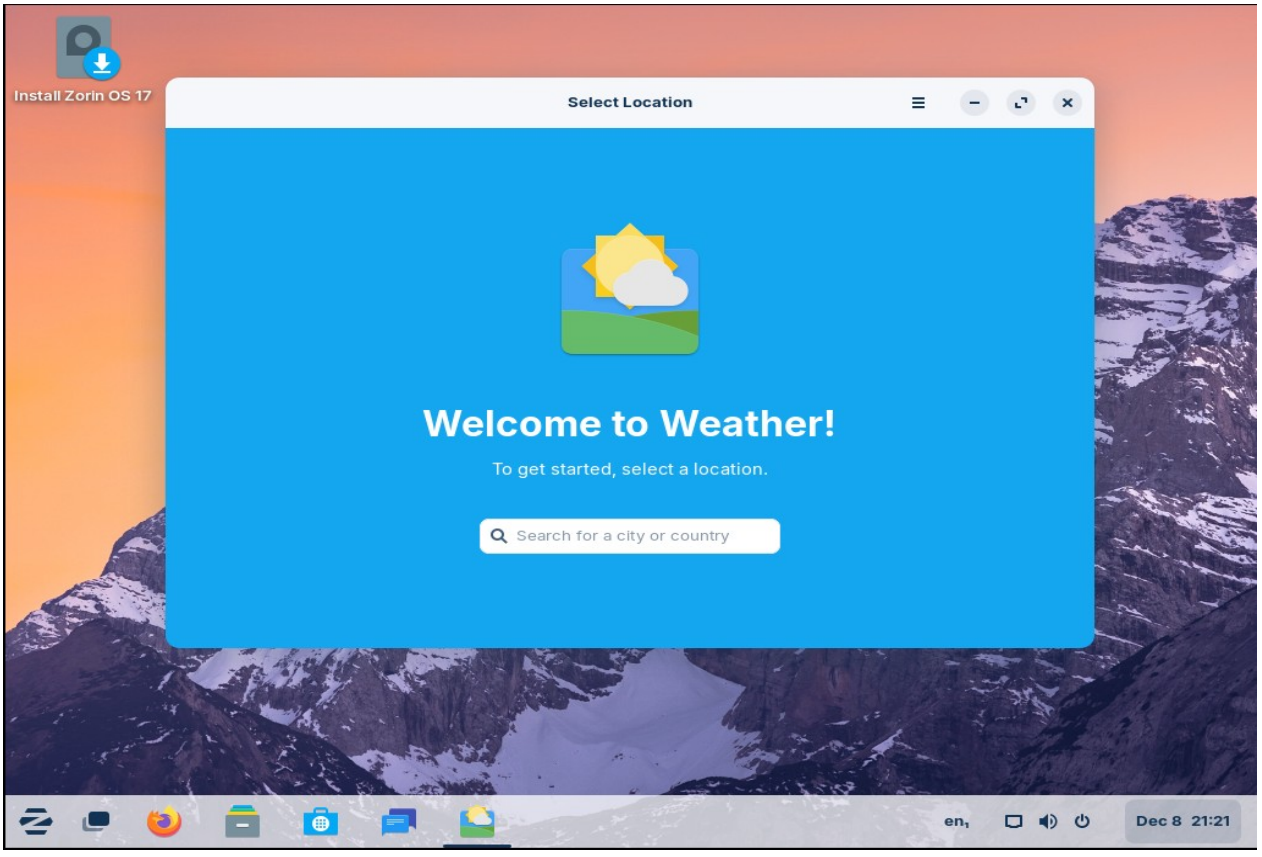
Files (formerly Nautilus file explorer)

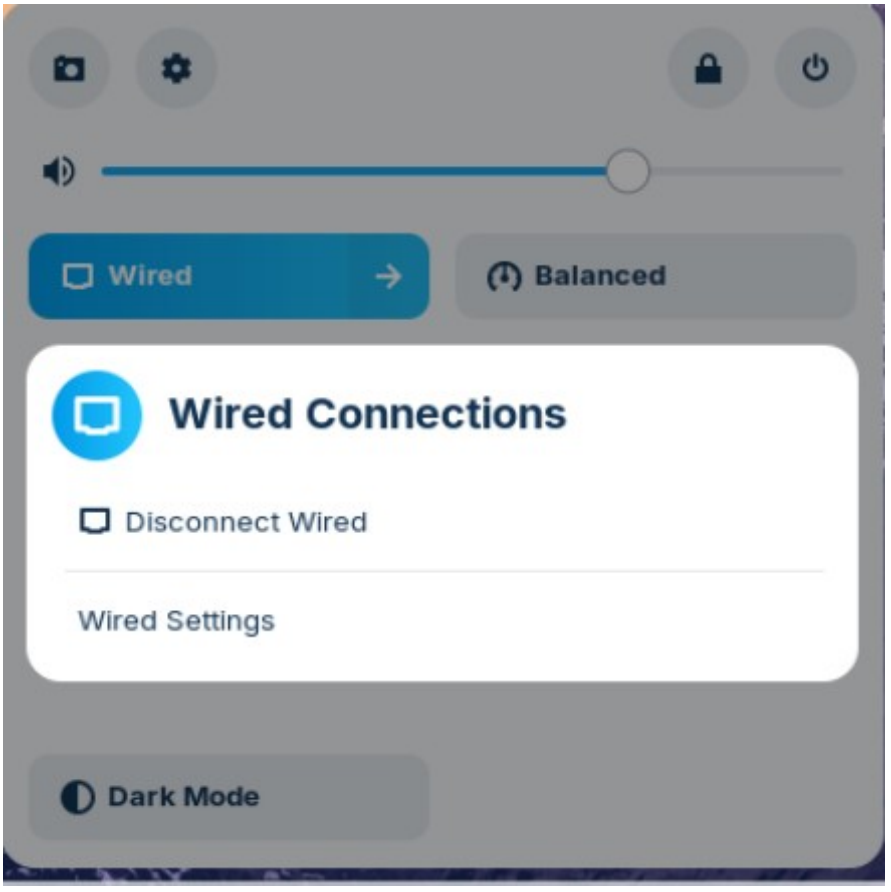

Displays
Night Light
Unknown Display
Orientation
Landscape
Resolution
1024 × 768 (4:3)
Refresh Rate
60.00 Hz
Fractional Scaling
May increase power usage, lower speed, or reduce display sharpness.

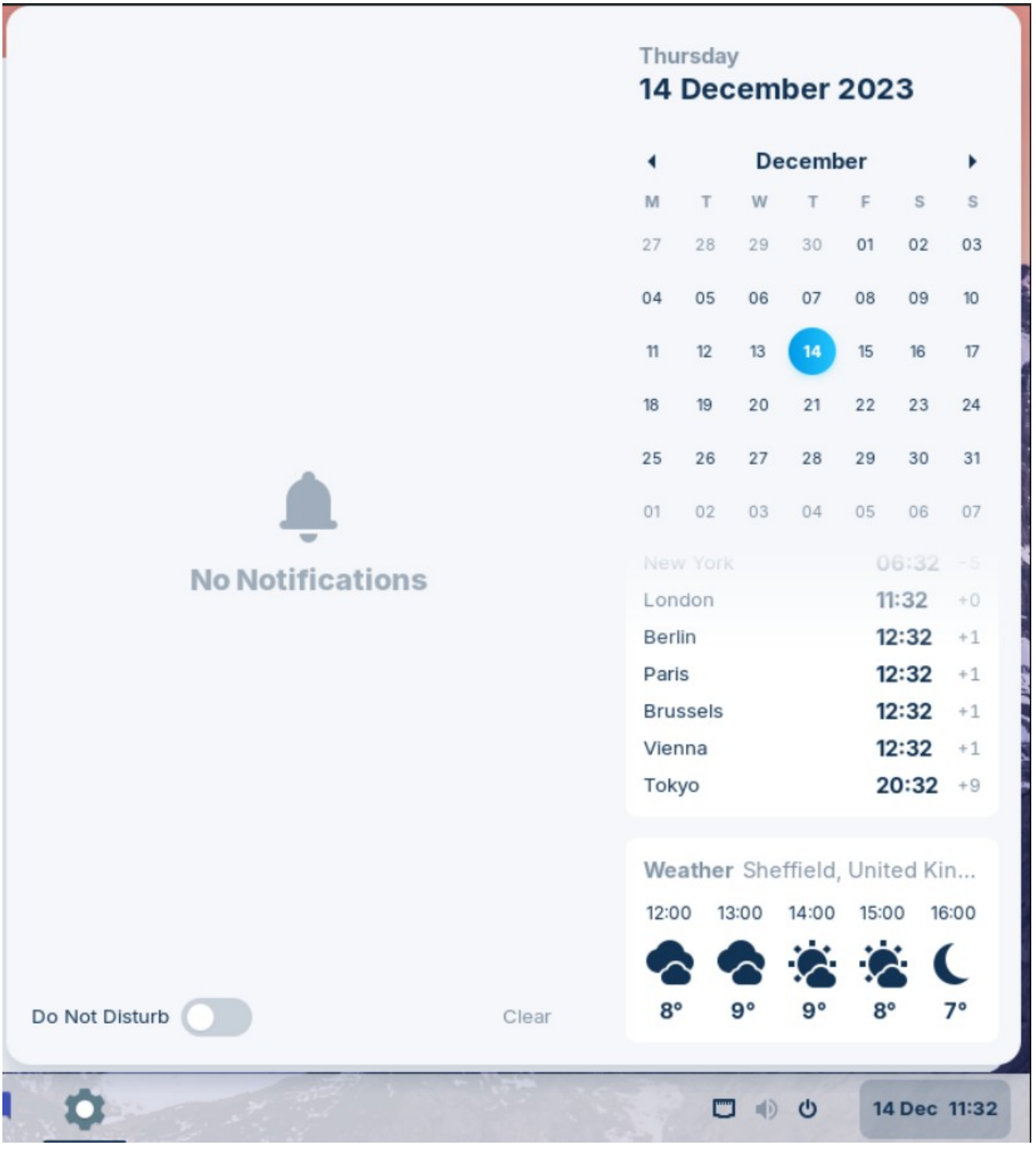

swarfendor437
Password

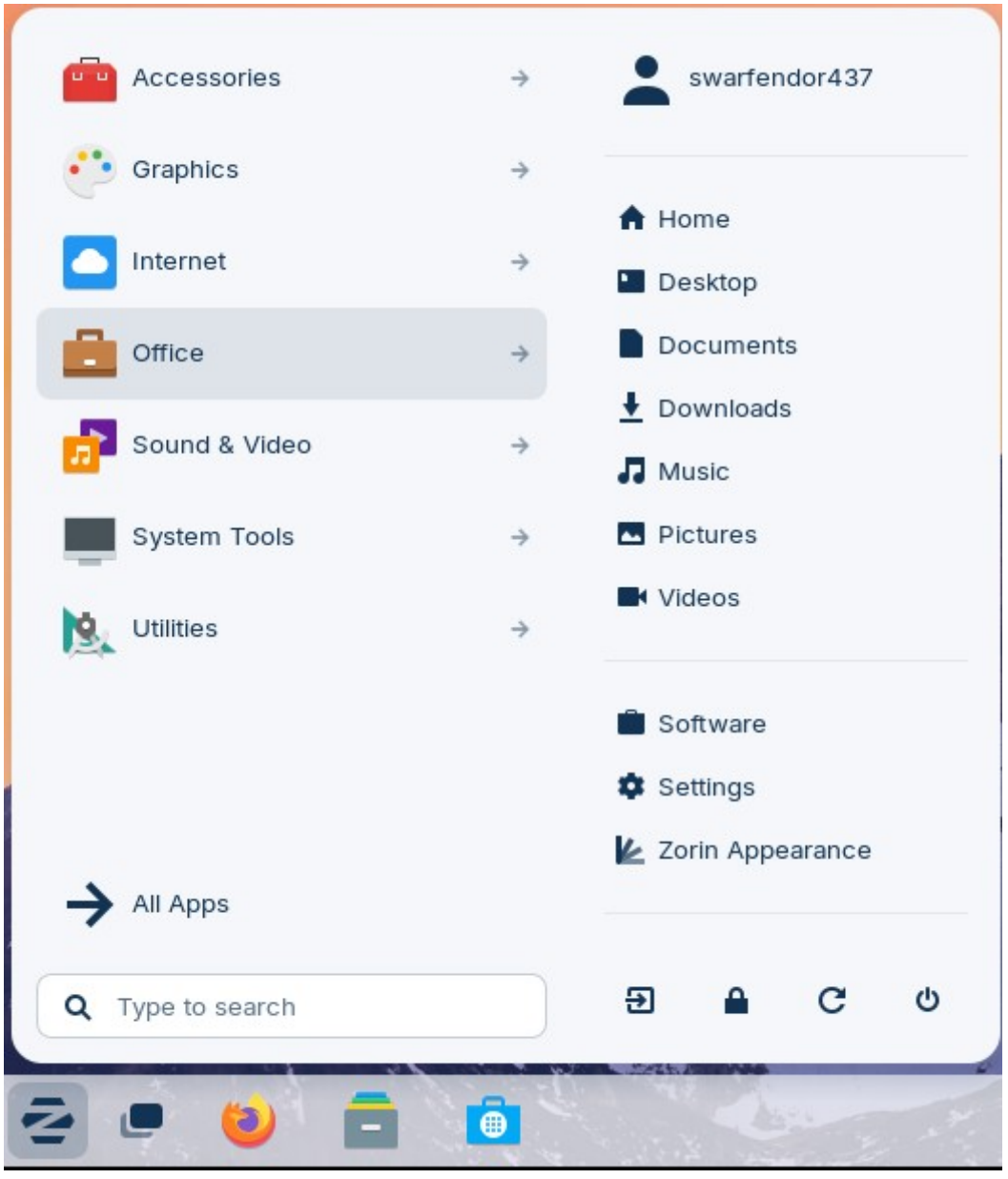
Text Editor (gedit), similar to Notepad it is used to create .txt files.

Weather

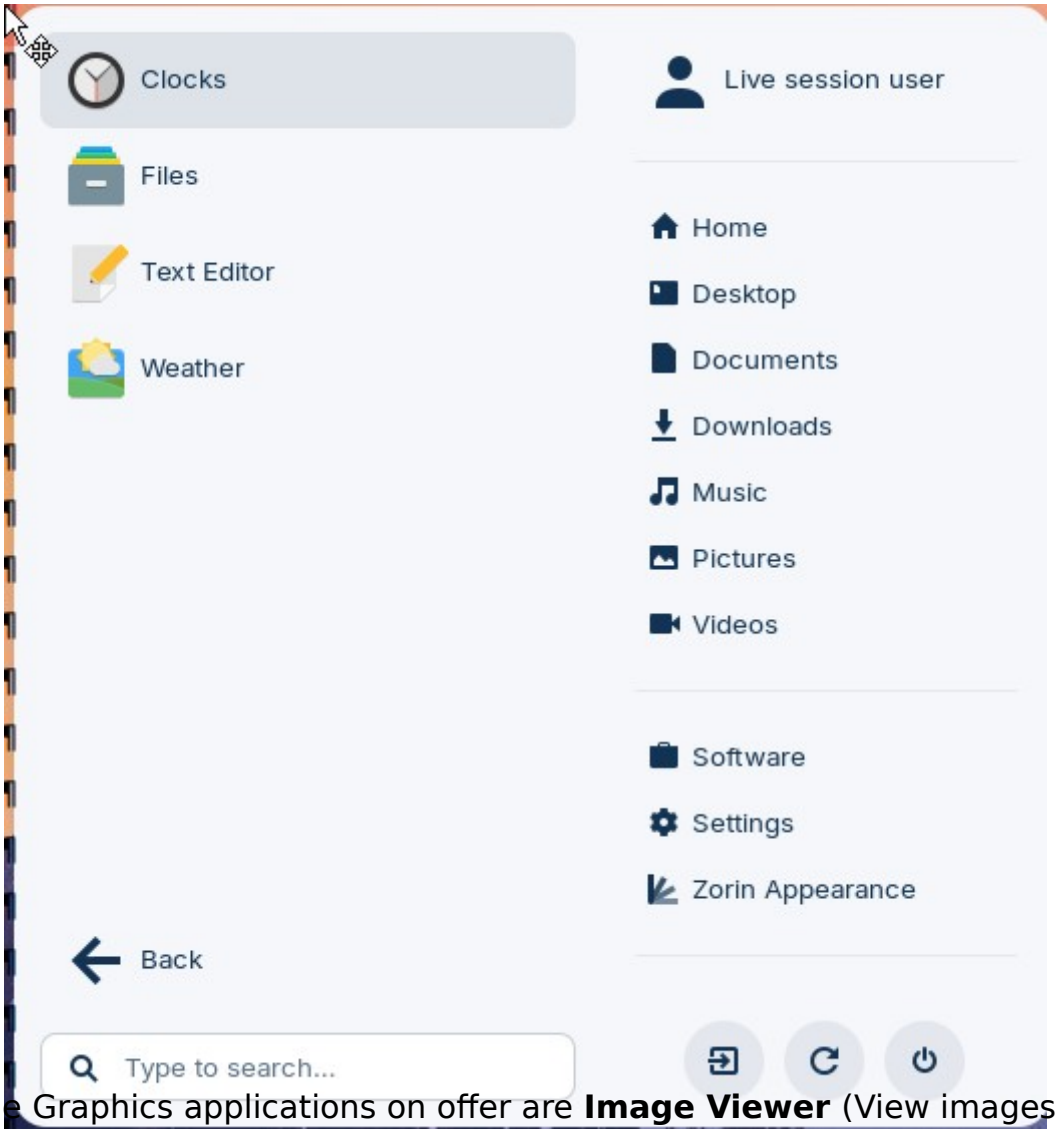



Wired
Balanced
Wired Connections
Disconnect Wired
Wired Settings
Dark Mode


Thursday
14 December 2023
December
M T W T F S S
27 28 29 30 01 02 03
04 05 06 07 08 09 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
01 02 03 04 05 06 07
No Notifications
New York 06:32 -5
London 11:32 +0
Berlin 12:32 +1
Paris 12:32 +1
Brussels 12:32 +1
Vienna 12:32 +1
Tokyo 20:32 +9
Weather Sheffield, United Kin...
12:00 13:00 14:00 15:00 16:00
8° 9° 9° 8° 7°
Do Not Disturb
Clear
14 Dec 11:32

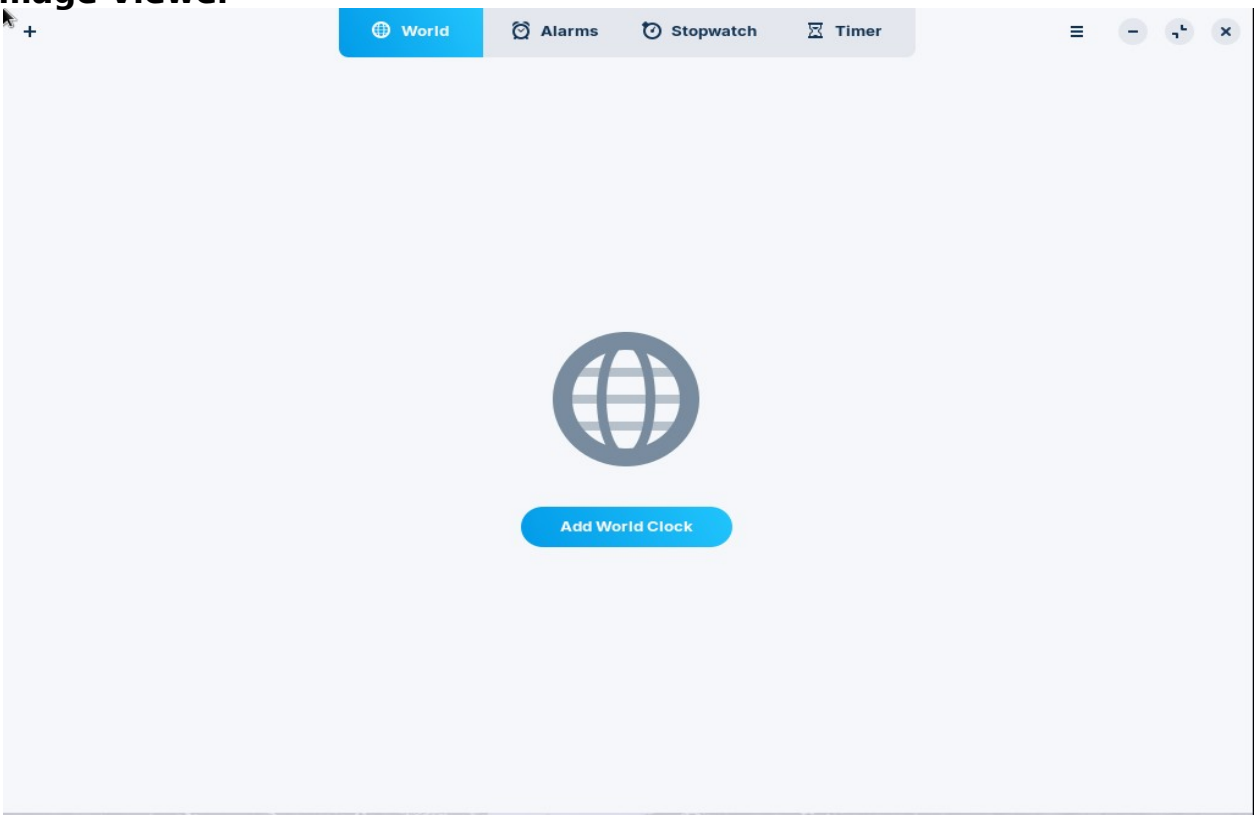

Accessories
Graphics
Internet
Office
Sound & Video
System Tools
Utilities
All Apps
Type to search
swarfendor437
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Software
Settings
Zorin Appearance

1 ii. Graphics;

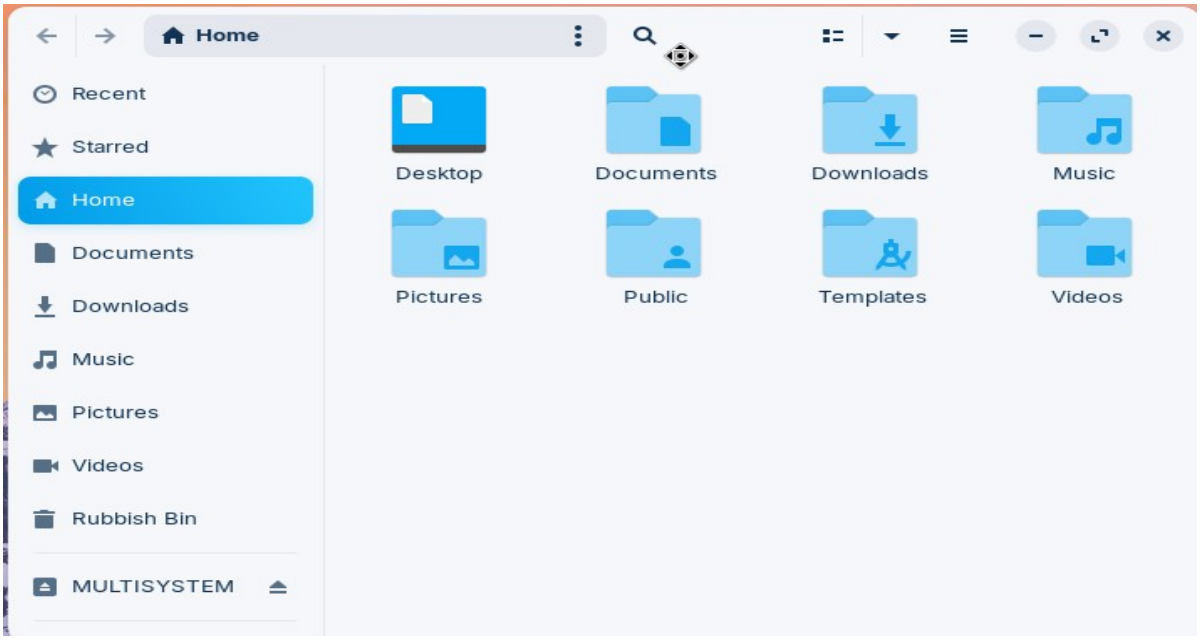


The Graphics applications on offer are **Image Viewer** (View images you have downloaded or in your Pictures folder within **Home), LibreOffice Draw** (Create your own diagrams)**,** and **Photos** (from Online Accounts or Pictures Folder).

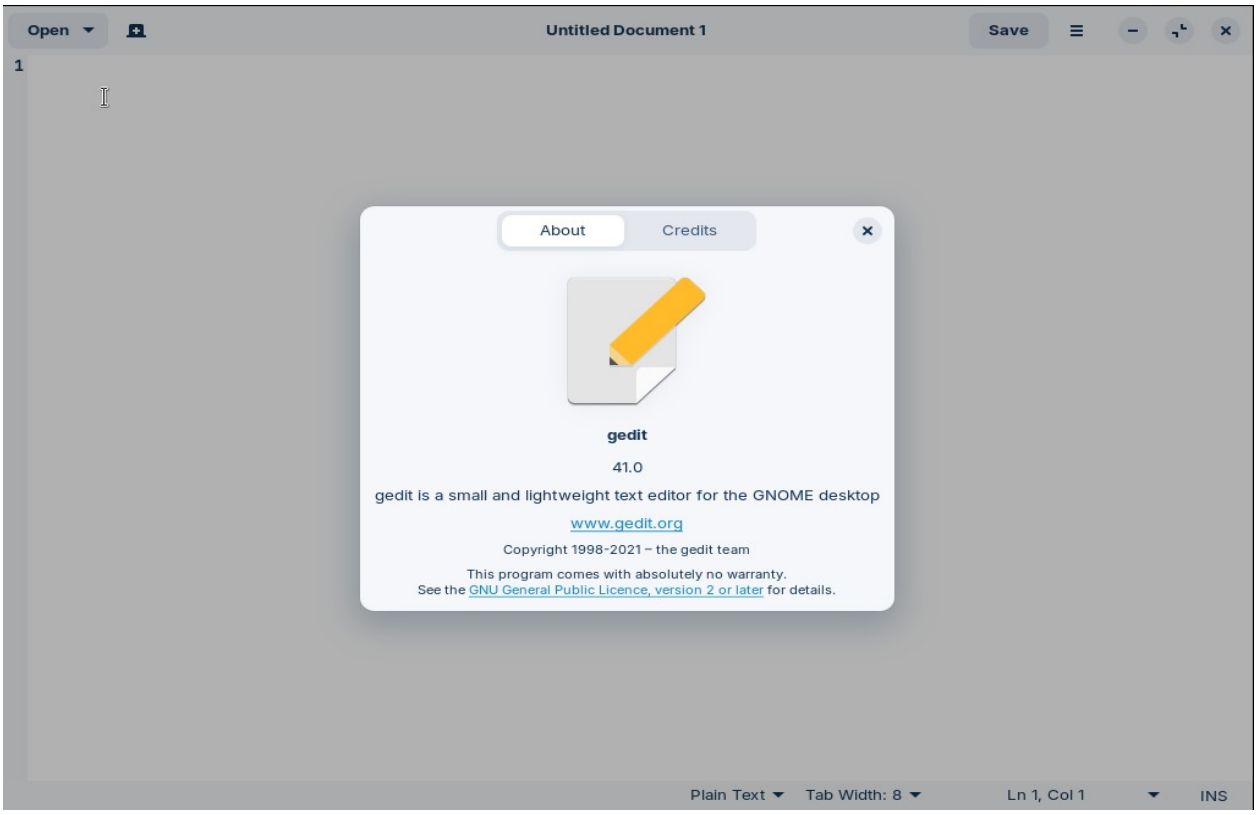
Image Viewer



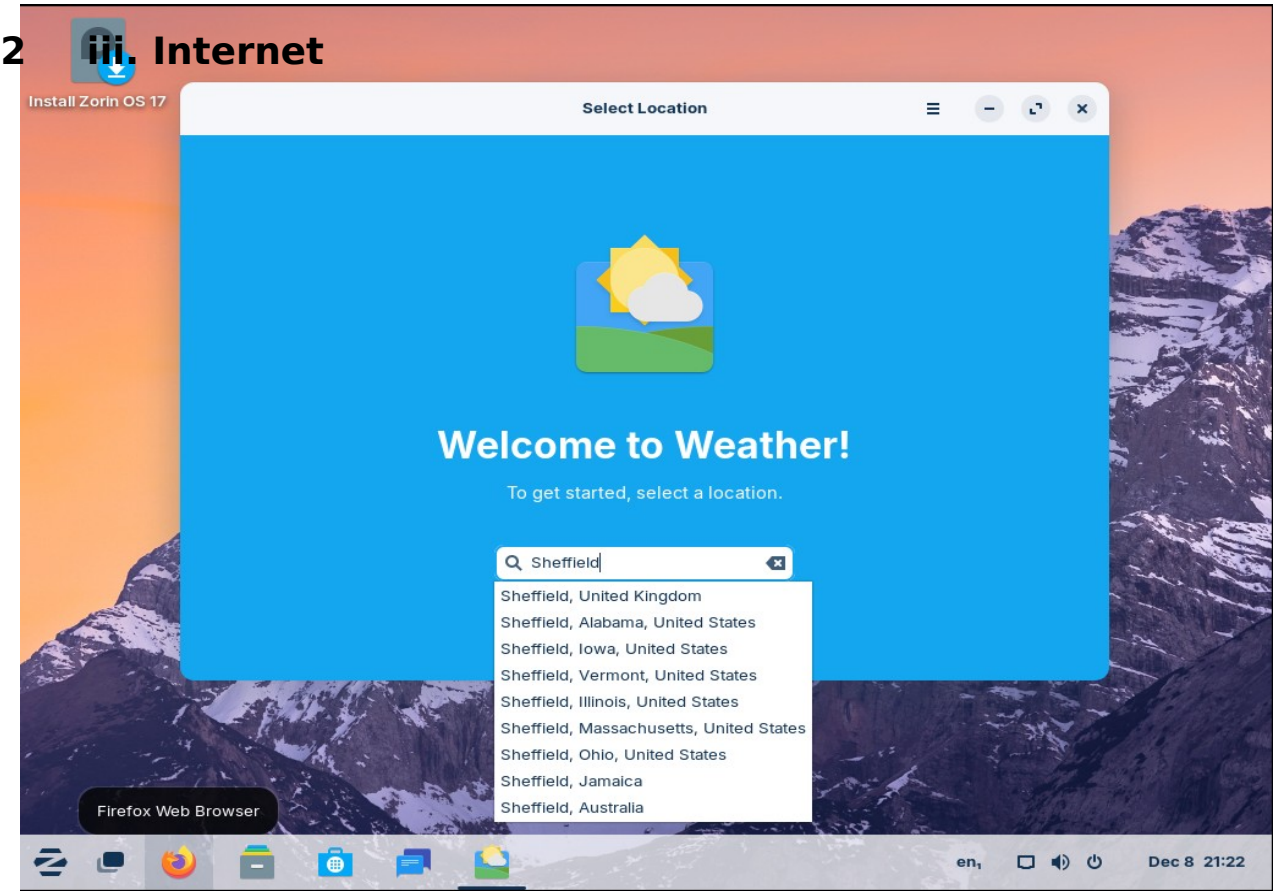
LibreOffice Draw

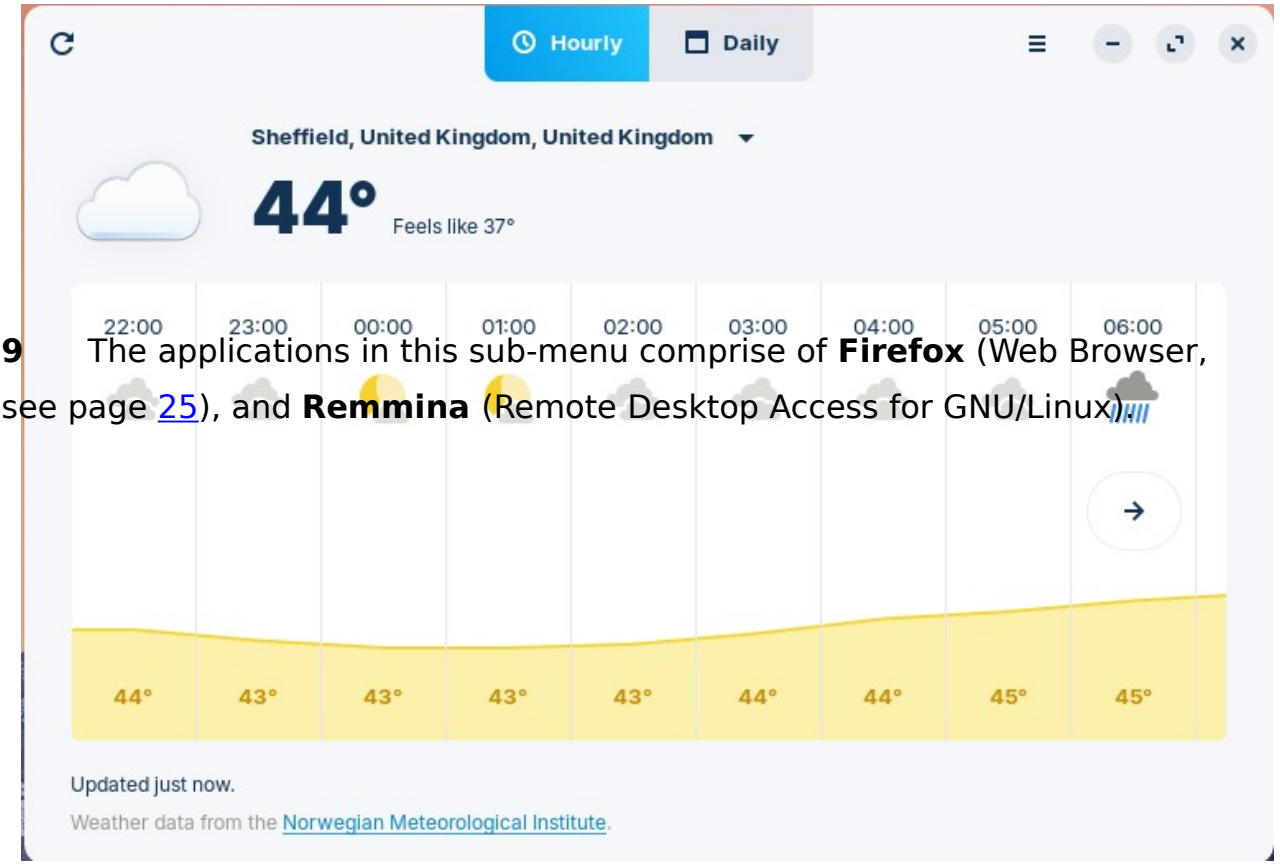


Photos


Open
Untitled Document 1
Save
1
About
Credits
gedit
41.0
gedit is a small and lightweight text editor for the GNOME desktop
www.gedit.org
Copyright 1998-2021 – the gedit team
This program comes with absolutely no warranty.
See the GNU General Public Licence, version 2 or later for details.
Plain Text
Tab Width: 8
Ln 1, Col 1
INS

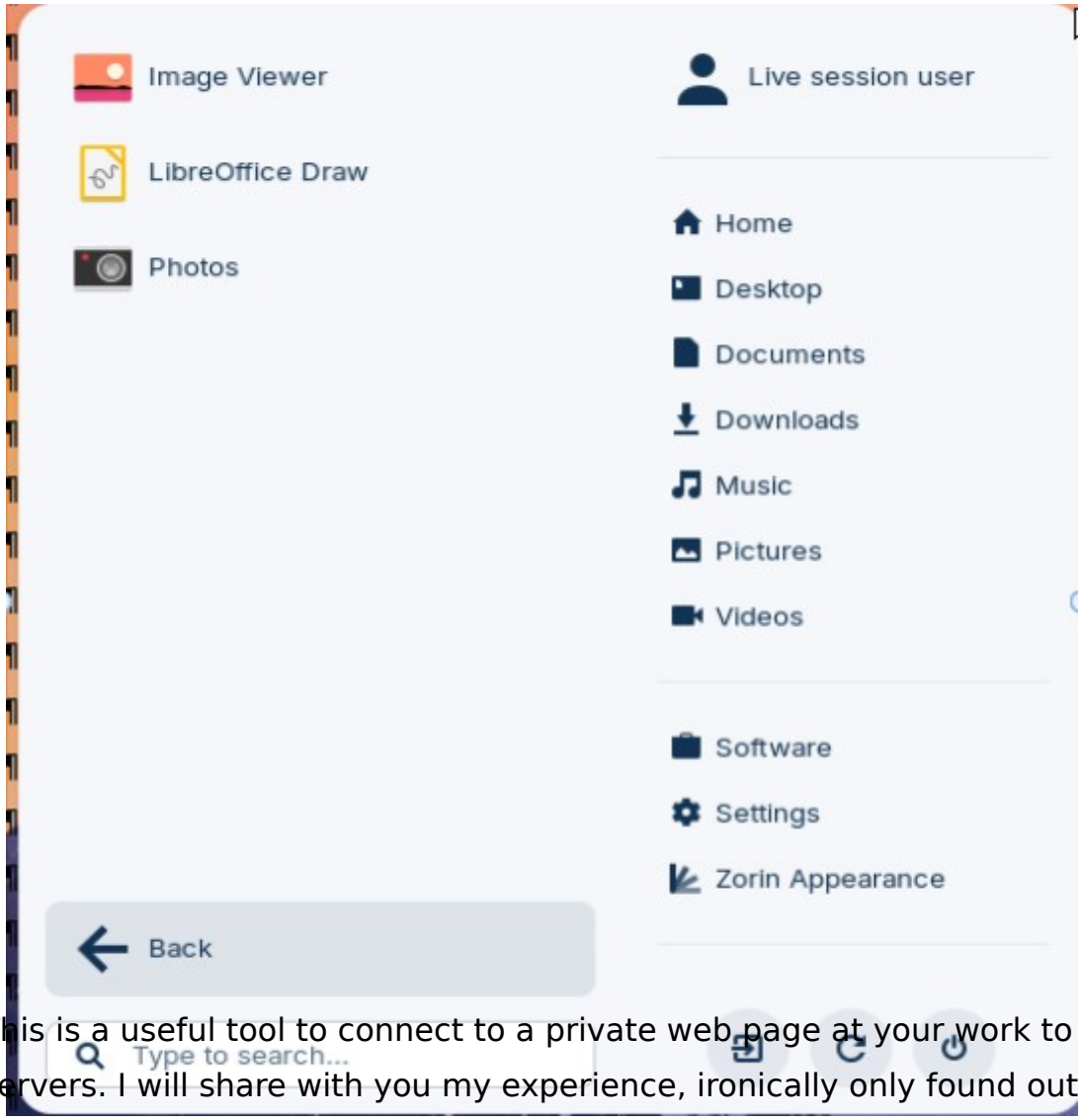
2 iii. Internet





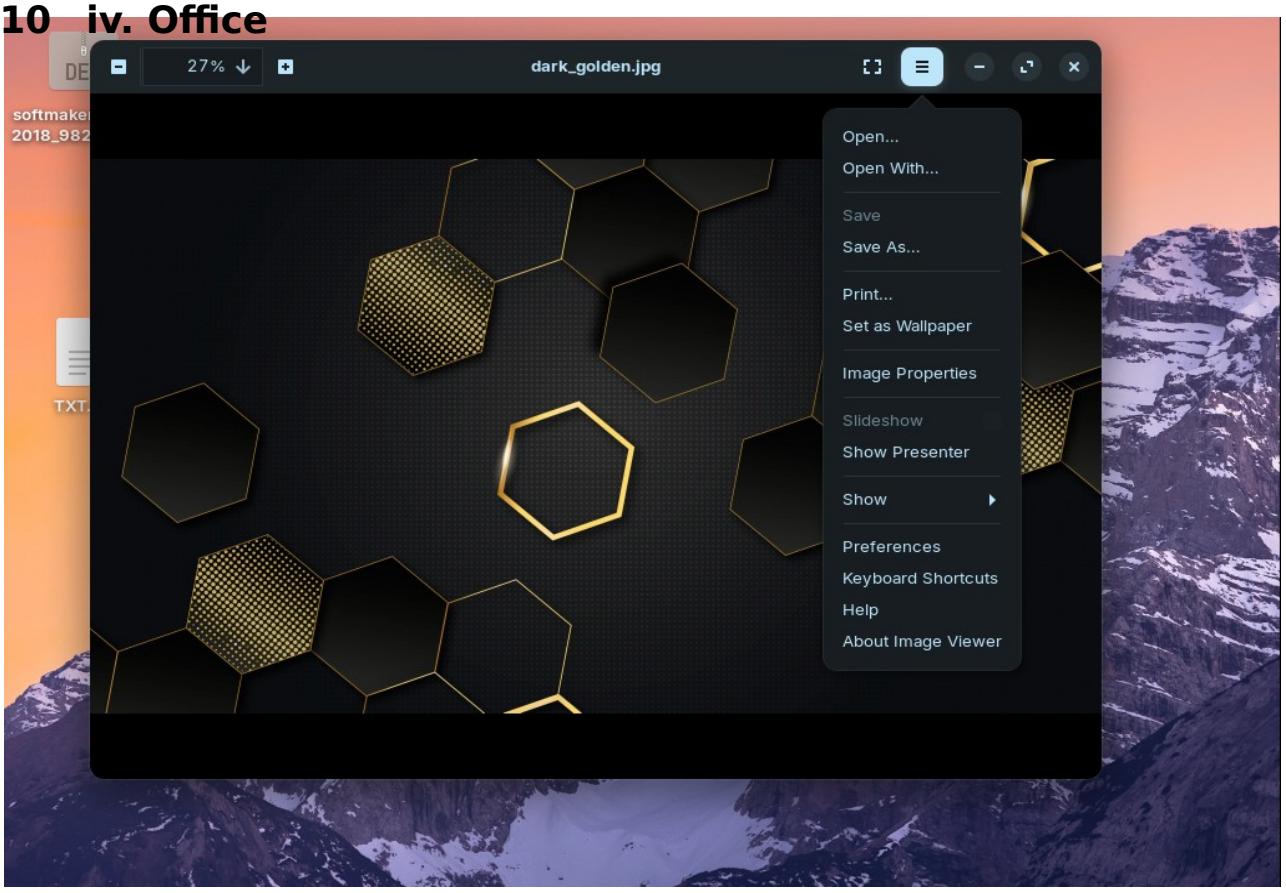
9 The applications in this sub-menu comprise of **Firefox** (Web Browser, see page 25), and **Remmina** (Remote Desktop Access for GNU/Linux).

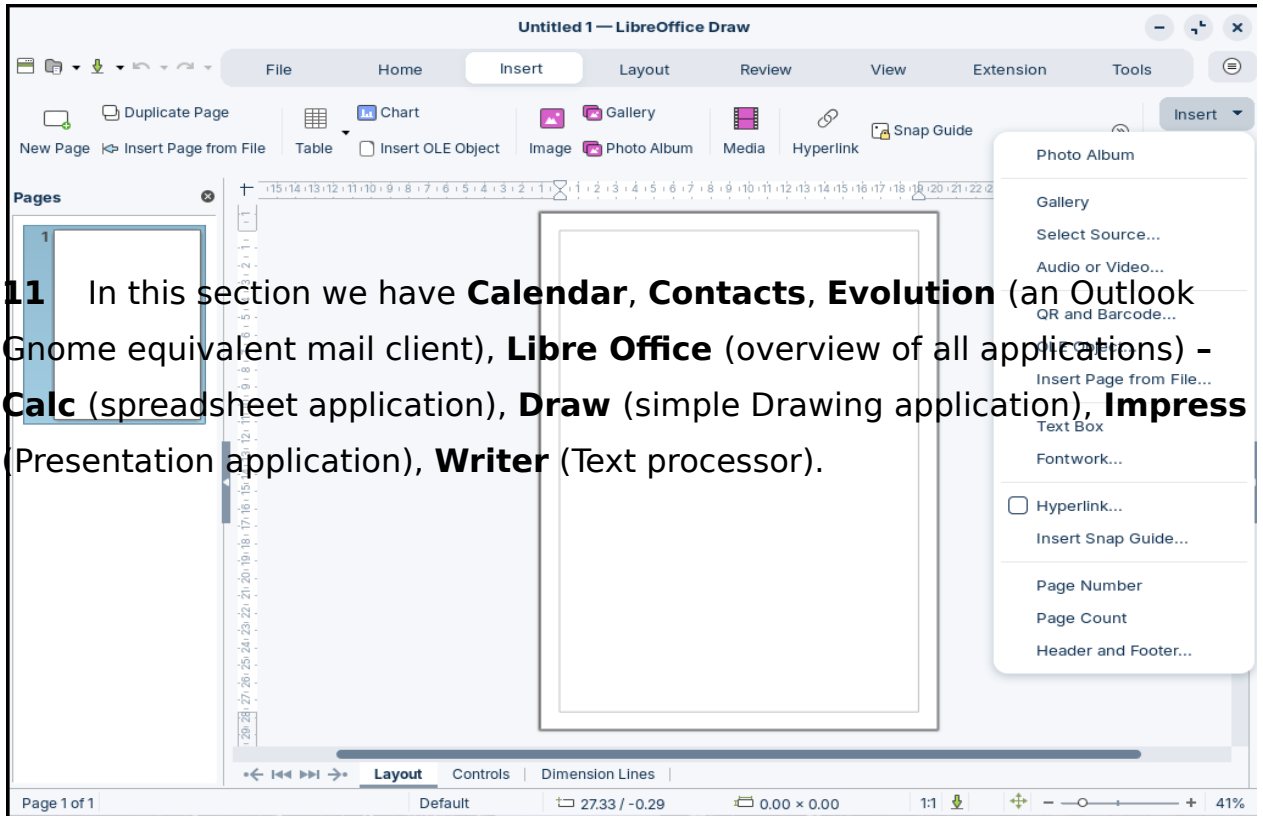
1 Remmina



This is a useful tool to connect to a private web page at your work to access servers. I will share with you my experience, ironically only found out how to do this 1 month before retirement, working from home! At the time I was running Devuan 3.1.1 and using virt-manager to run Windows 8.1 Professional 32-bit. Using Edge, I logged into the private page. Once there I had to click on a link to the shared drive. When this was selected, the server downloaded a tiny .exe file called cpub.exe. I saved this to a mounted USB in the VM. I then unmounted the USB from the VM and mounted it in the Host. I then launched Remmina within Devuan and pointed it to the cpub.exe file - RESULT! Once I had this setup, all I had to do was enter my username, credentials, and domain and I gained access immediately, unlike Windows which required me to provide my username and credentials **3** times!

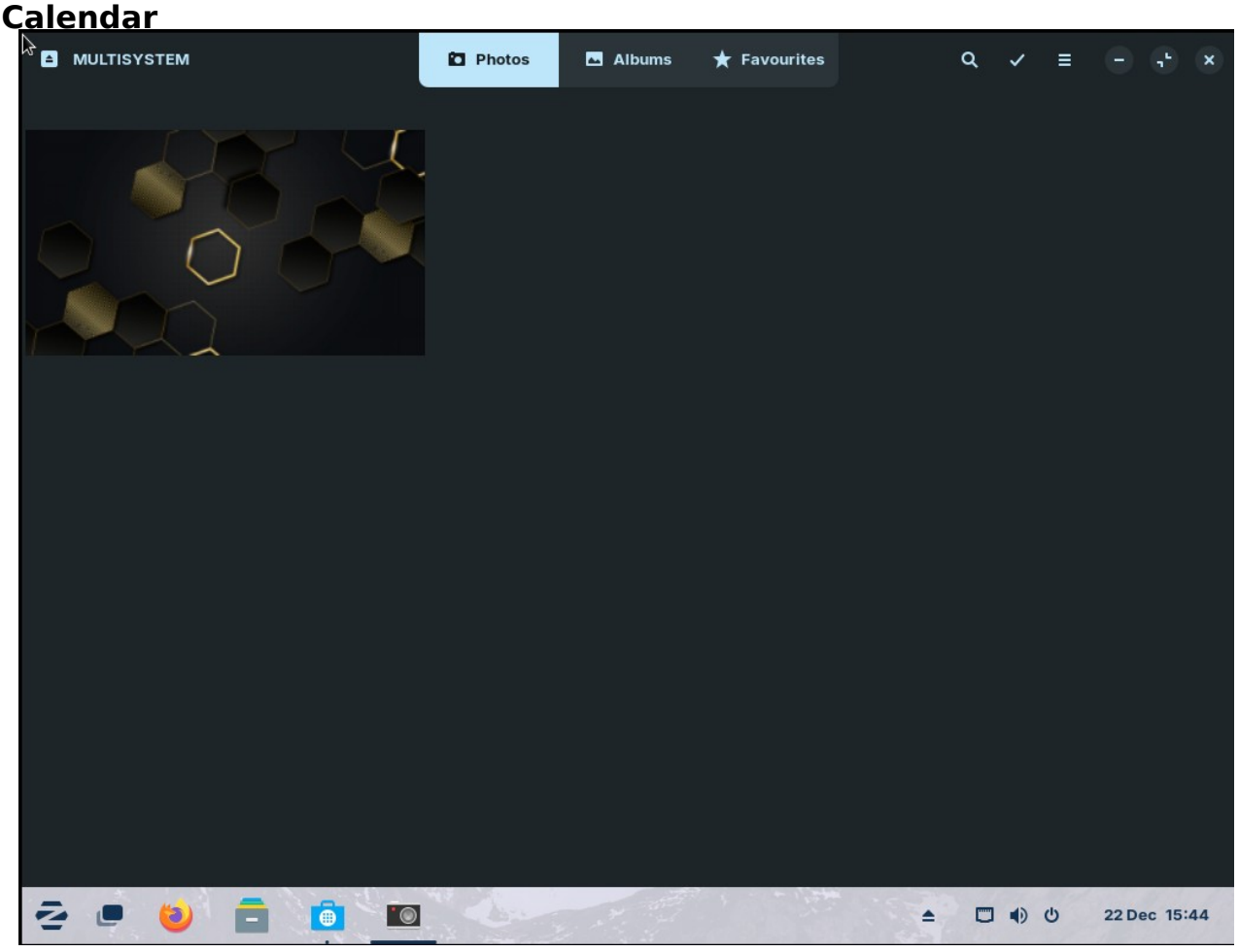
10 iv. Office



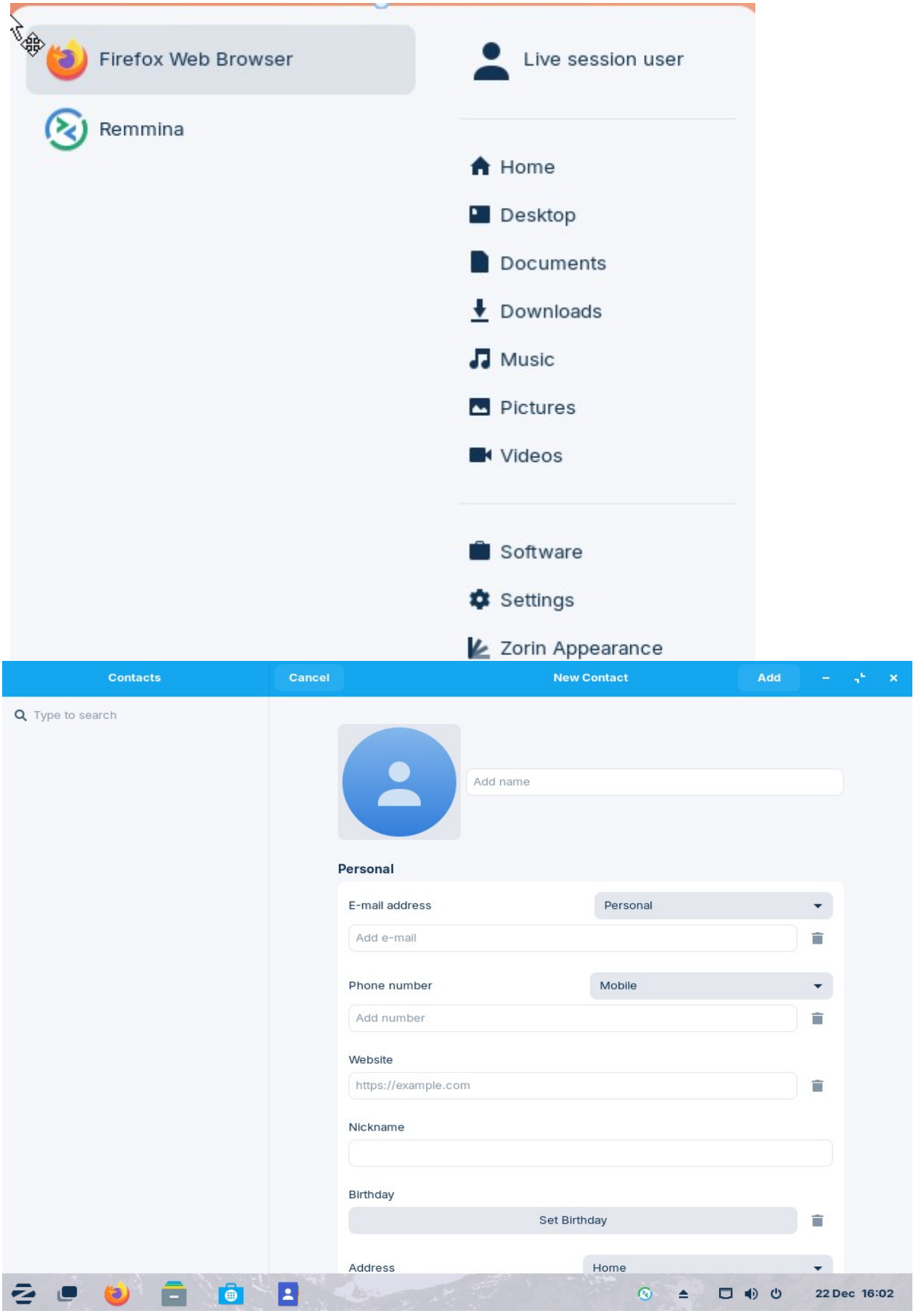


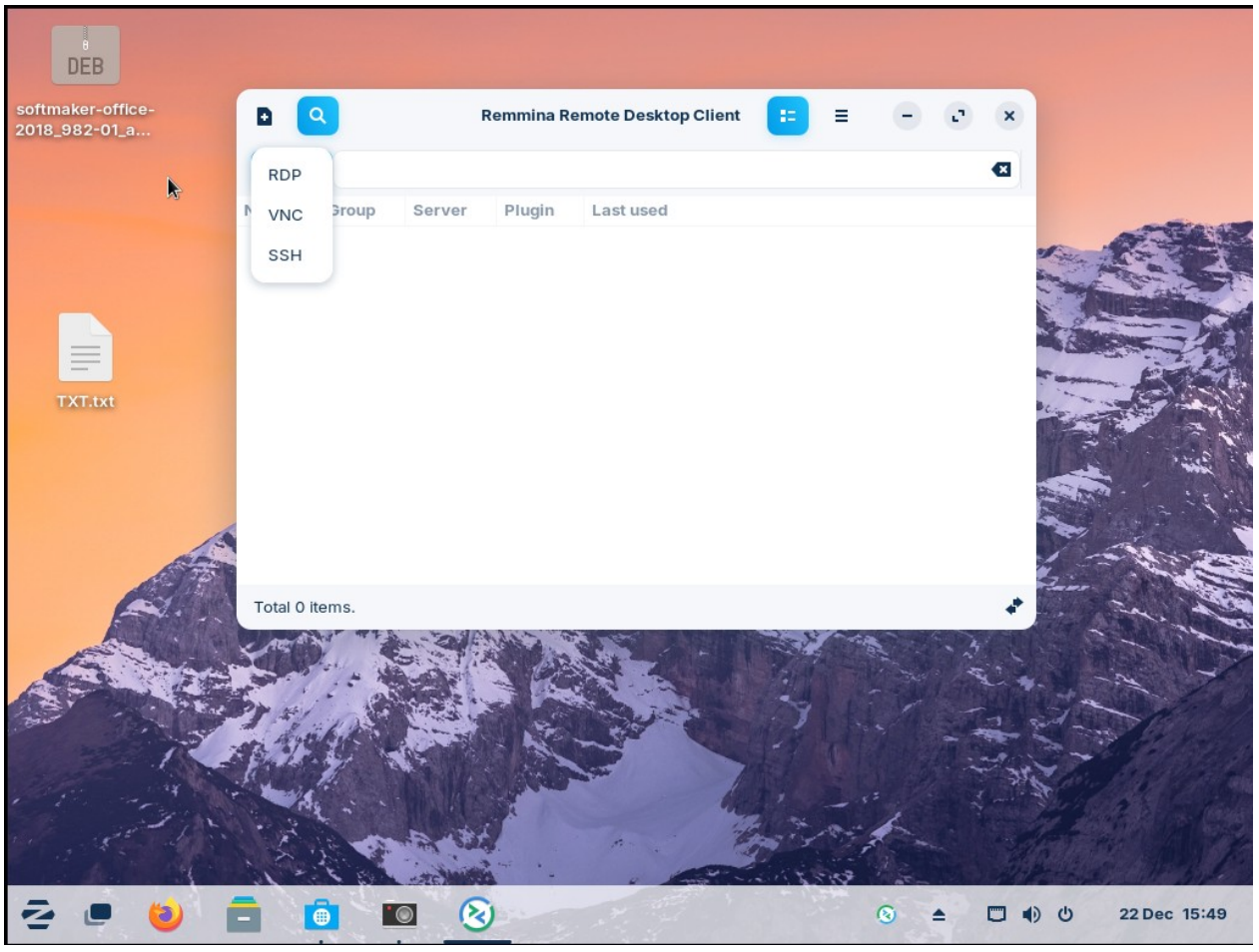
11 In this section we have **Calendar**, **Contacts**, **Evolution** (an Outlook Gnome equivalent mail client), **Libre Office** (overview of all applications) **– Calc** (spreadsheet application), **Draw** (simple Drawing application), **Impress** (Presentation application), **Writer** (Text processor).

Calendar

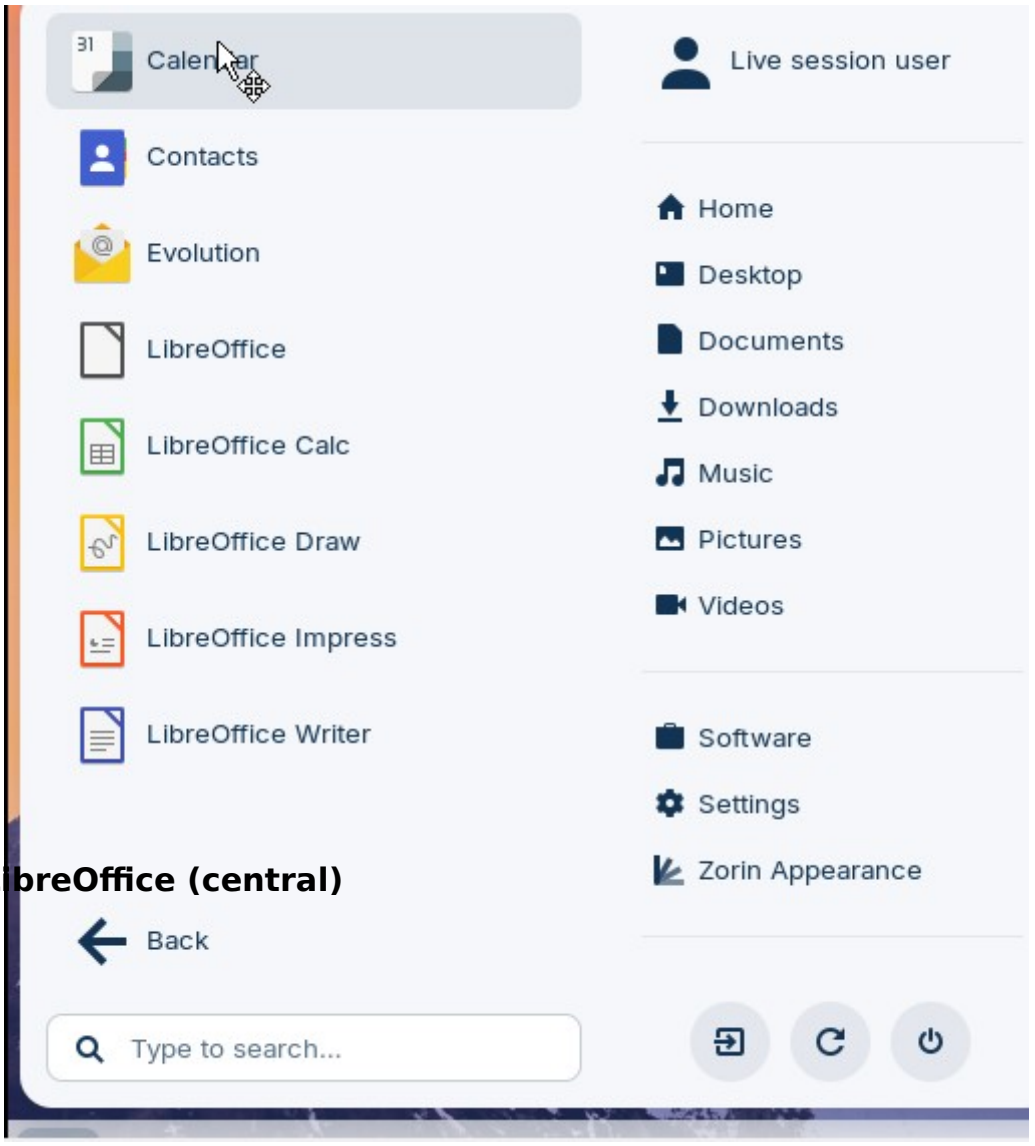


Contacts

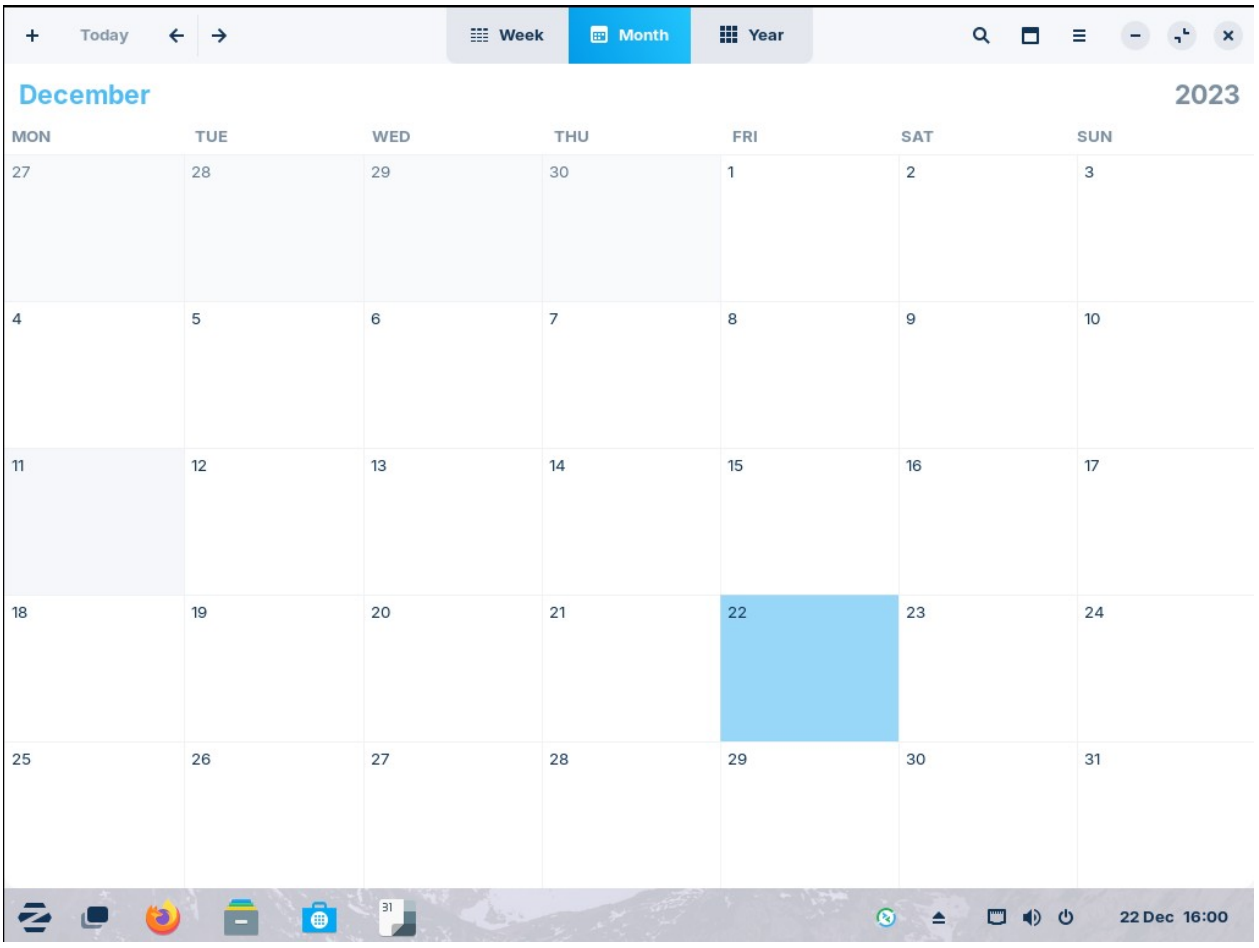

Firefox Web Browser
Remmina
Live session user
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Software
Settings
Zorin Appearance
Contacts
Cancel
New Contact
Add
Type to search
Add name
Personal
E-mail address
Personal
Add e-mail
Phone number
Mobile
Add number
Website
https://example.com
Nickname
Birthday
Set Birthday
Address
Home
22 Dec 16:02


DEB
softmaker-office-2018_982-01_a...
TXT.txt
Remmina Remote Desktop Client
RDP
VNC
SSH
Group
Server
Plugin
Last used
Total 0 items.
22 Dec 15:49

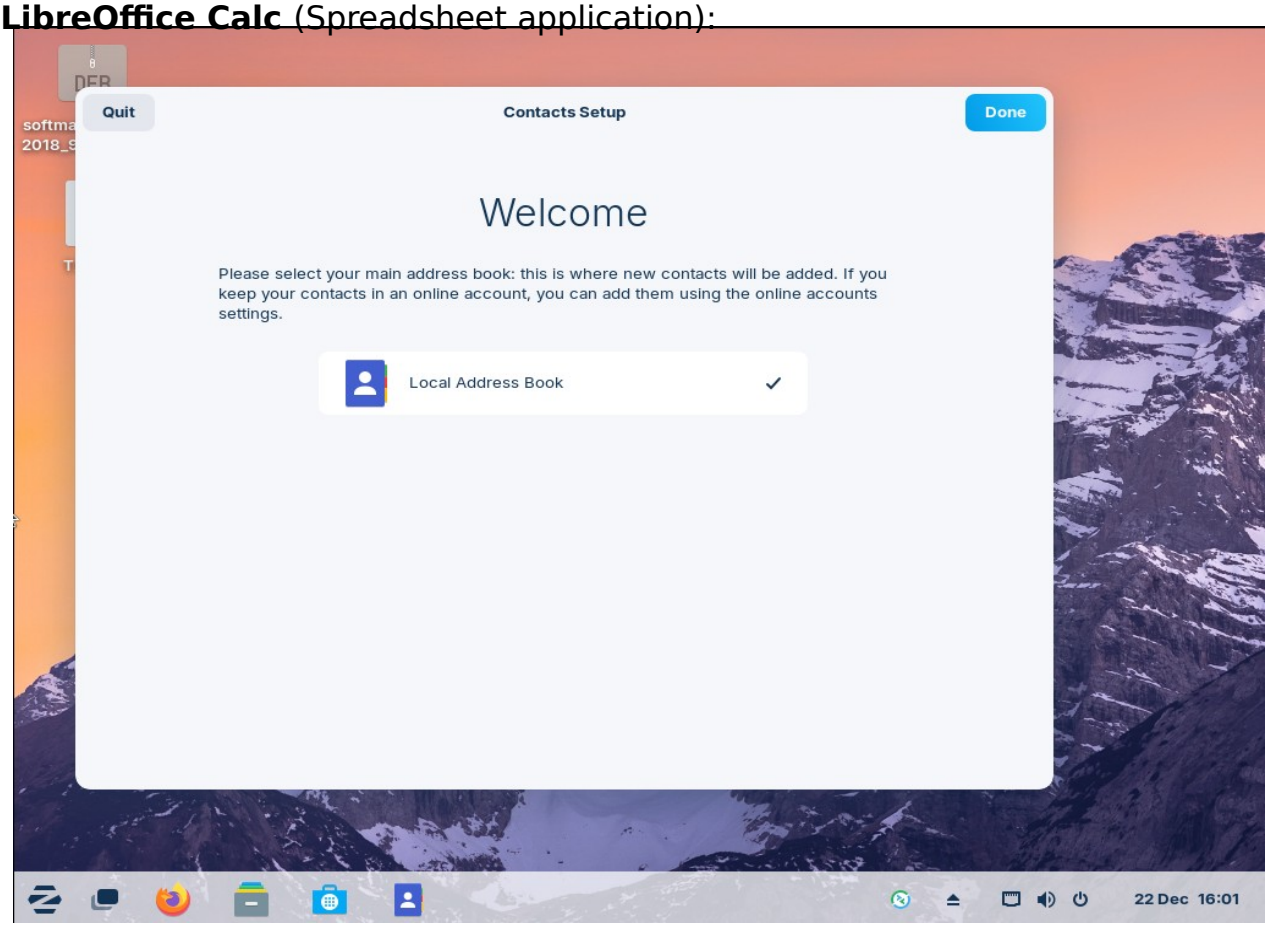
Evolution (Linux equivalent of Outlook with Calendar):



LibreOffice (central)

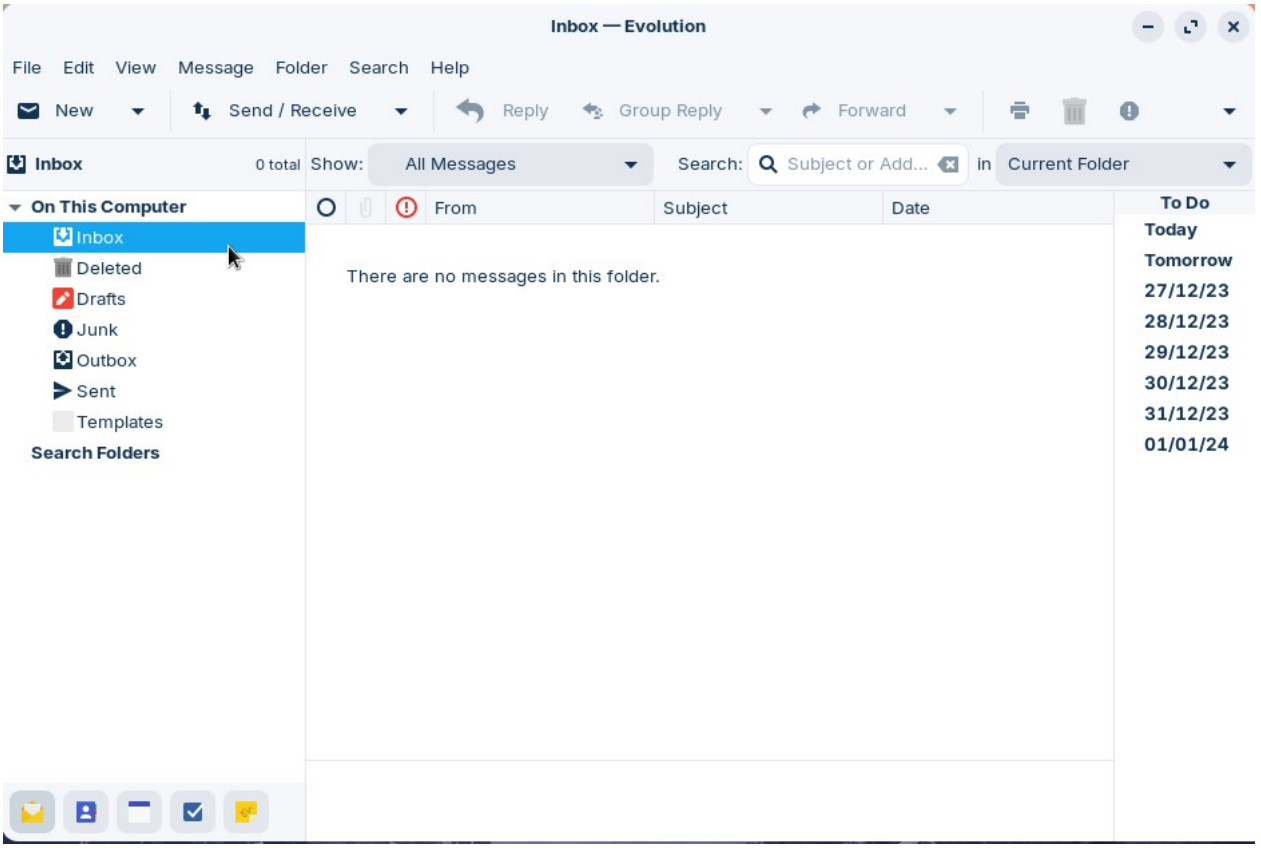

Today
Week
Month
Year
December
2023
MON
TUE
WED
THU
FRI
SAT
SUN
27 28 29 30 1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
22 Dec 16:00

LibreOffice Calc (Spreadsheet application):

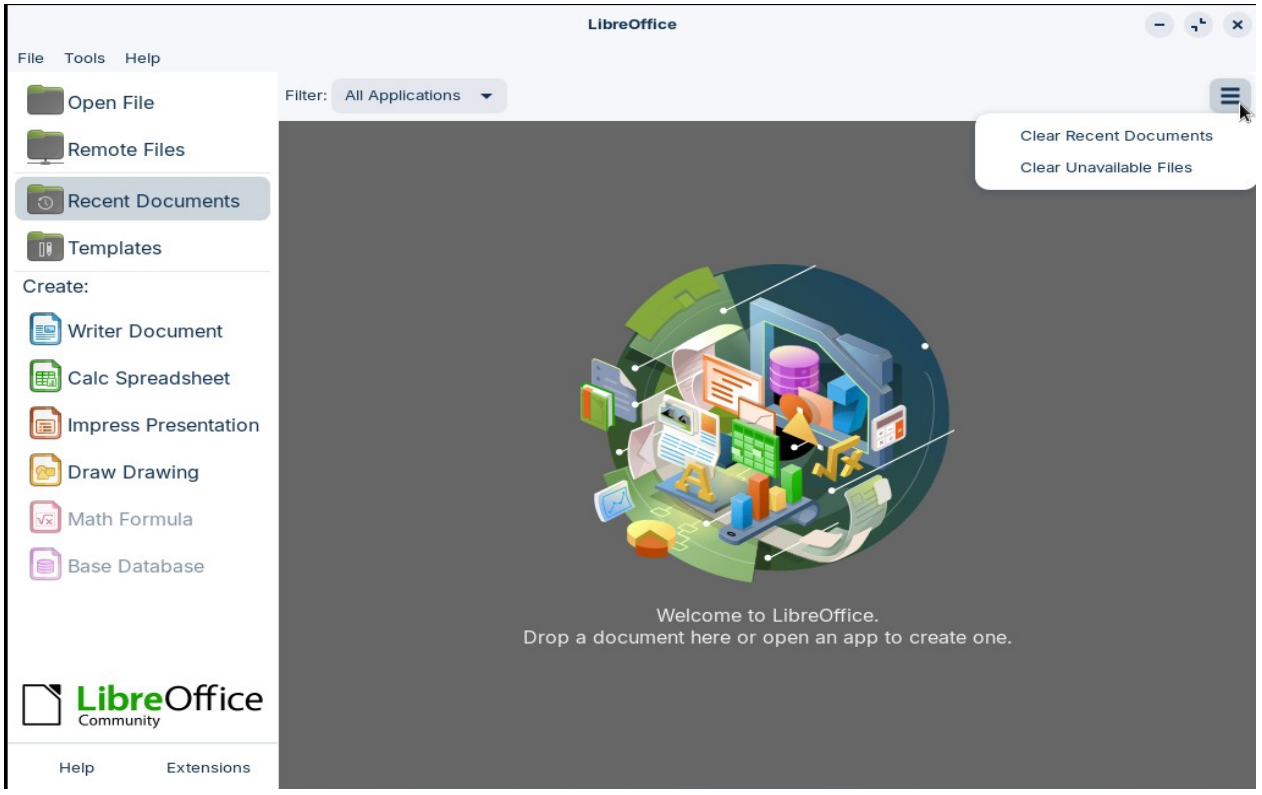

Quit
Contacts Setup
Done
Welcome
Please select your main address book: this is where new contacts will be added. If you keep your contacts in an online account, you can add them using the online accounts settings.
Local Address Book
22 Dec 16:01

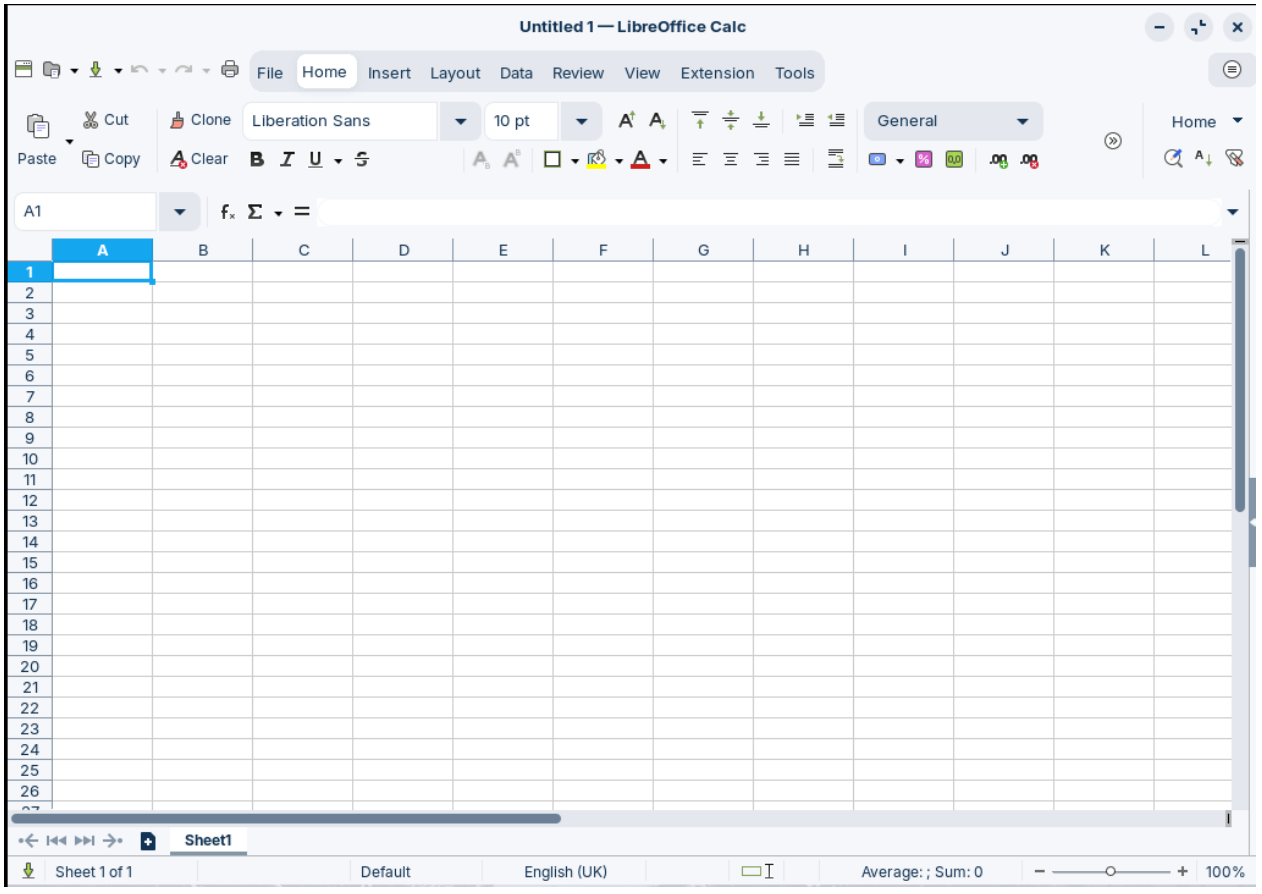
LibreOffice Draw - already covered on page 50

LibreOffice Impress - Presentation application.

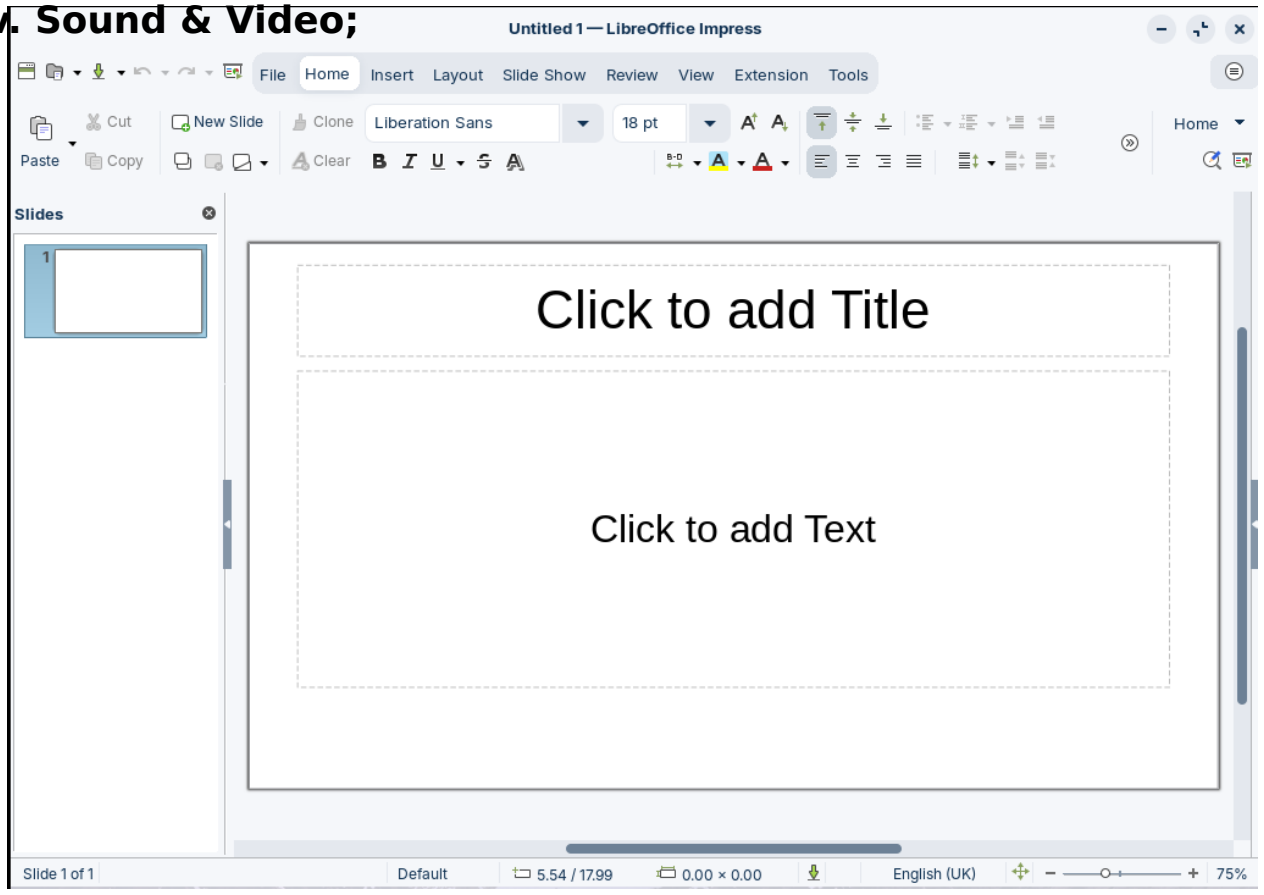


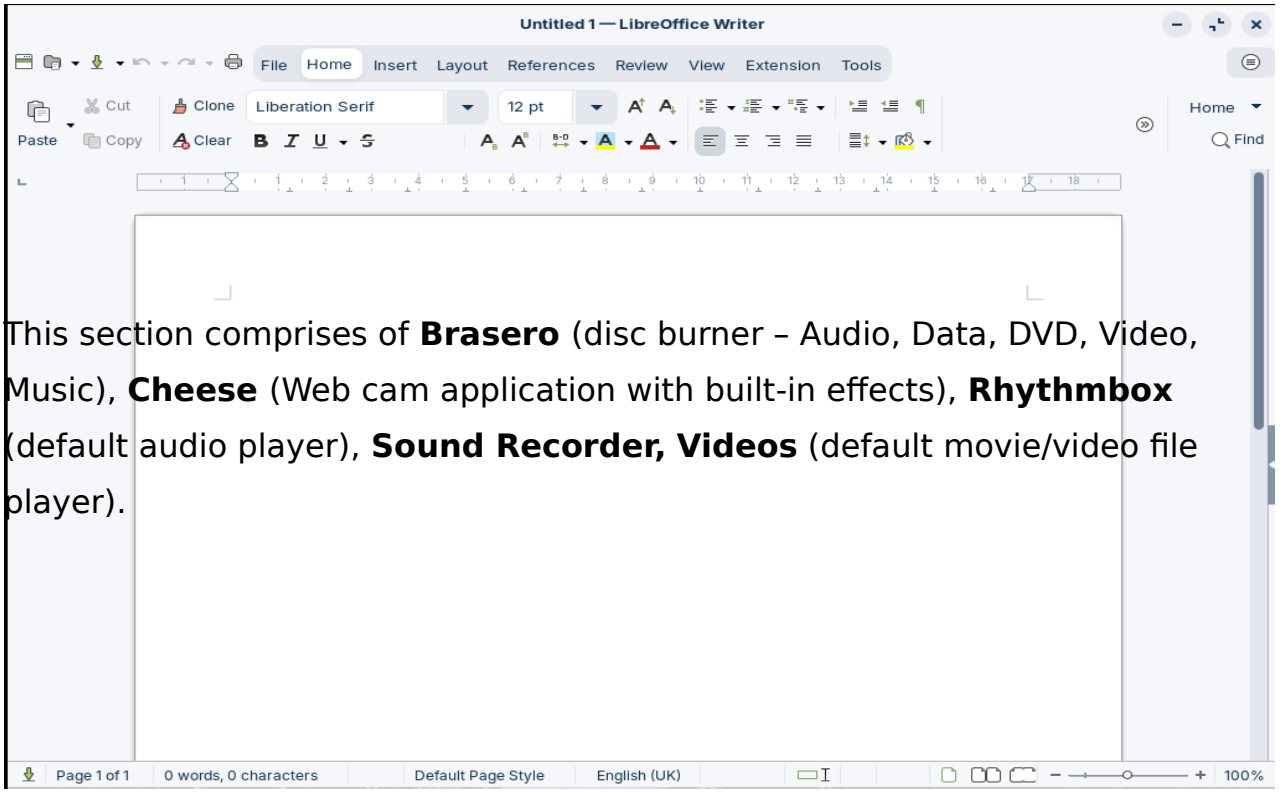
LibreOffice Writer - Text Processor.




Untitled 1 — LibreOffice Calc
File
Home
Insert
Layout
Data
Review
View
Extension
Tools
Cut
Copy
Clone
Clear
Paste
Liberation Sans
10 pt
General
Home
A1
Sheet1
Sheet 1 of 1
Default
English (UK)
Average: ; Sum: 0
100%

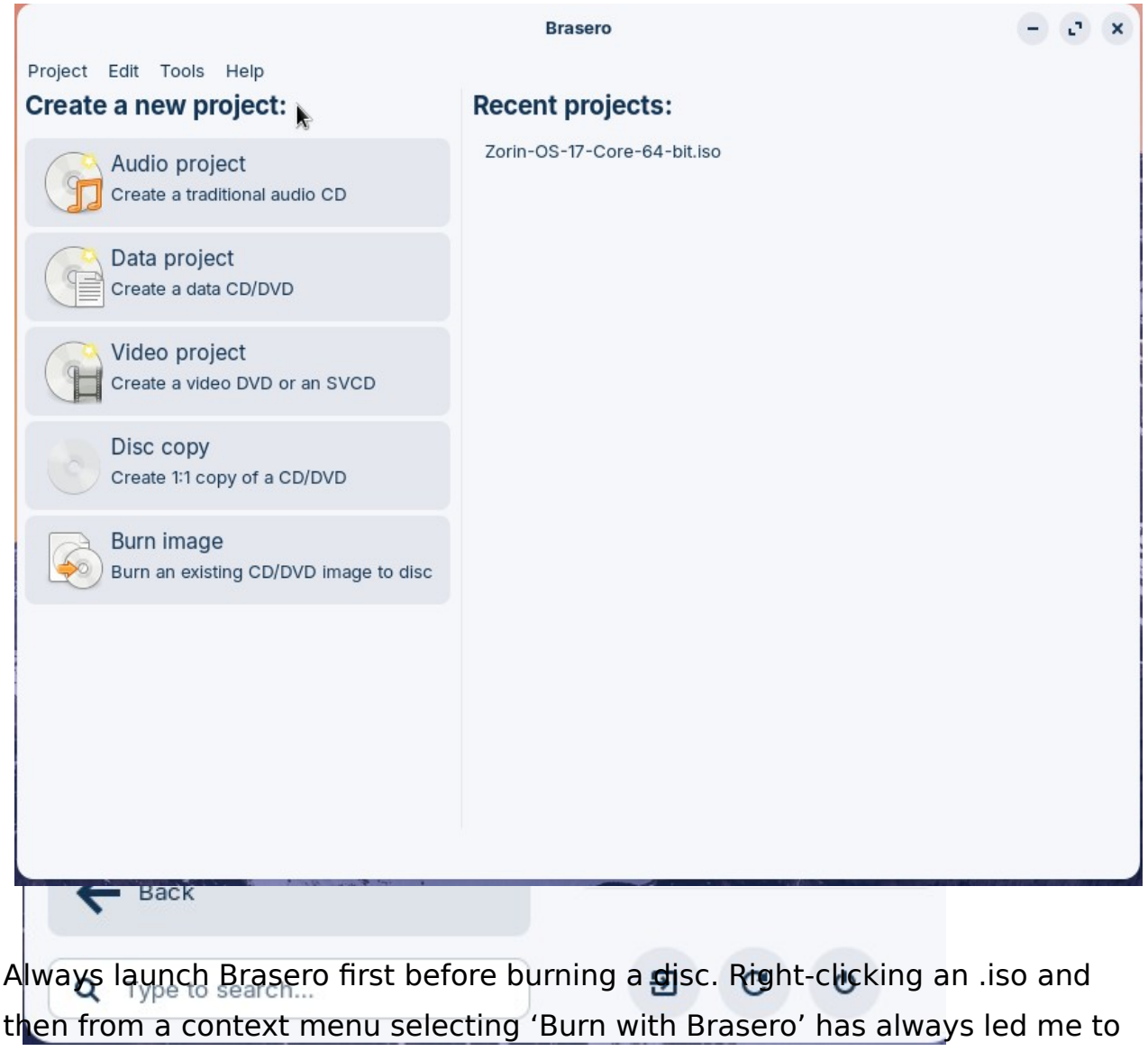
v. Sound & Video;


Untitled 1 — LibreOffice Impress
File Home Insert Layout Slide Show Review View Extension Tools
Paste Cut Copy New Slide Clone Clear Liberation Sans 18 pt
Home
Slides
1
Click to add Title
Click to add Text
Slide 1 of 1 Default 5.54 / 17.99 0.00 × 0.00 English (UK) 75%


Untitled 1 — LibreOffice Writer
File Home Insert Layout References Review View Extension Tools
Paste Cut Copy Clone Clear Liberation Serif 12 pt
Home Find
Page 1 of 1 0 words, 0 characters Default Page Style English (UK) 100%

This section comprises of **Brasero** (disc burner – Audio, Data, DVD, Video, Music), **Cheese** (Web cam application with built-in effects), **Rhythmbox** (default audio player), **Sound Recorder, Videos** (default movie/video file player).

Brasero

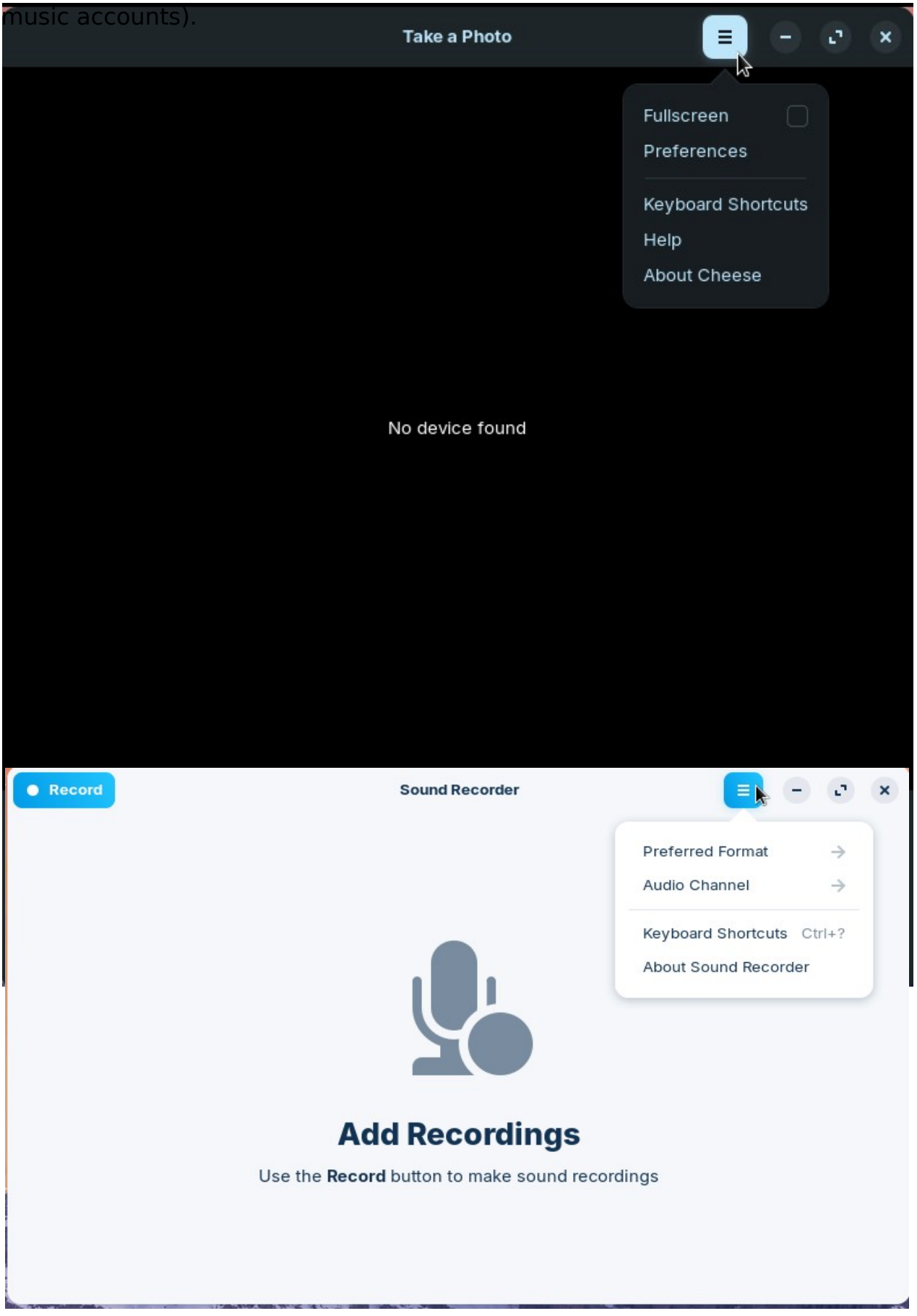


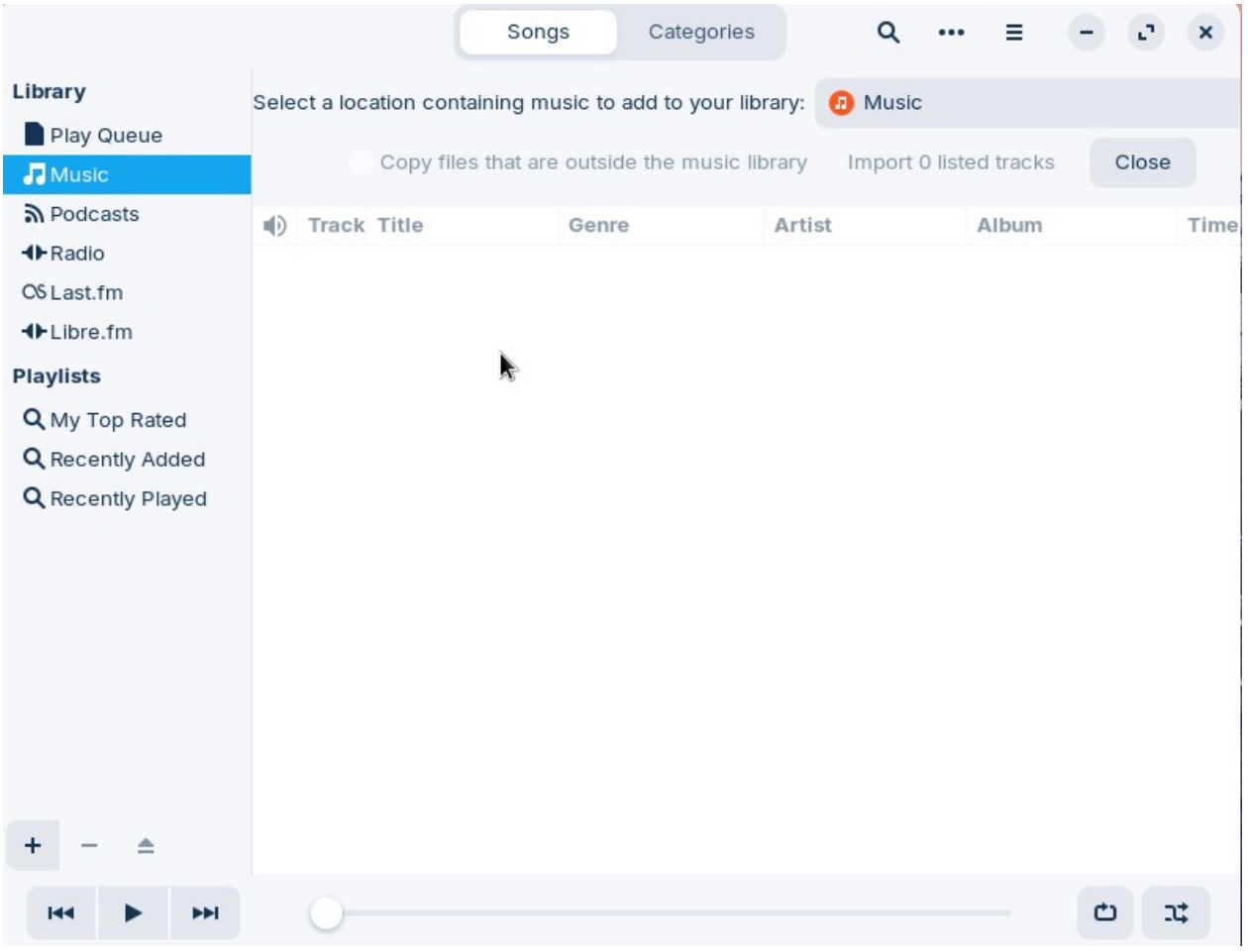
Always launch Brasero first before burning a disc. Right-clicking an .iso and then from a context menu selecting ‘Burn with Brasero’ has always led me to burn coasters!

Cheese (Webcam application).

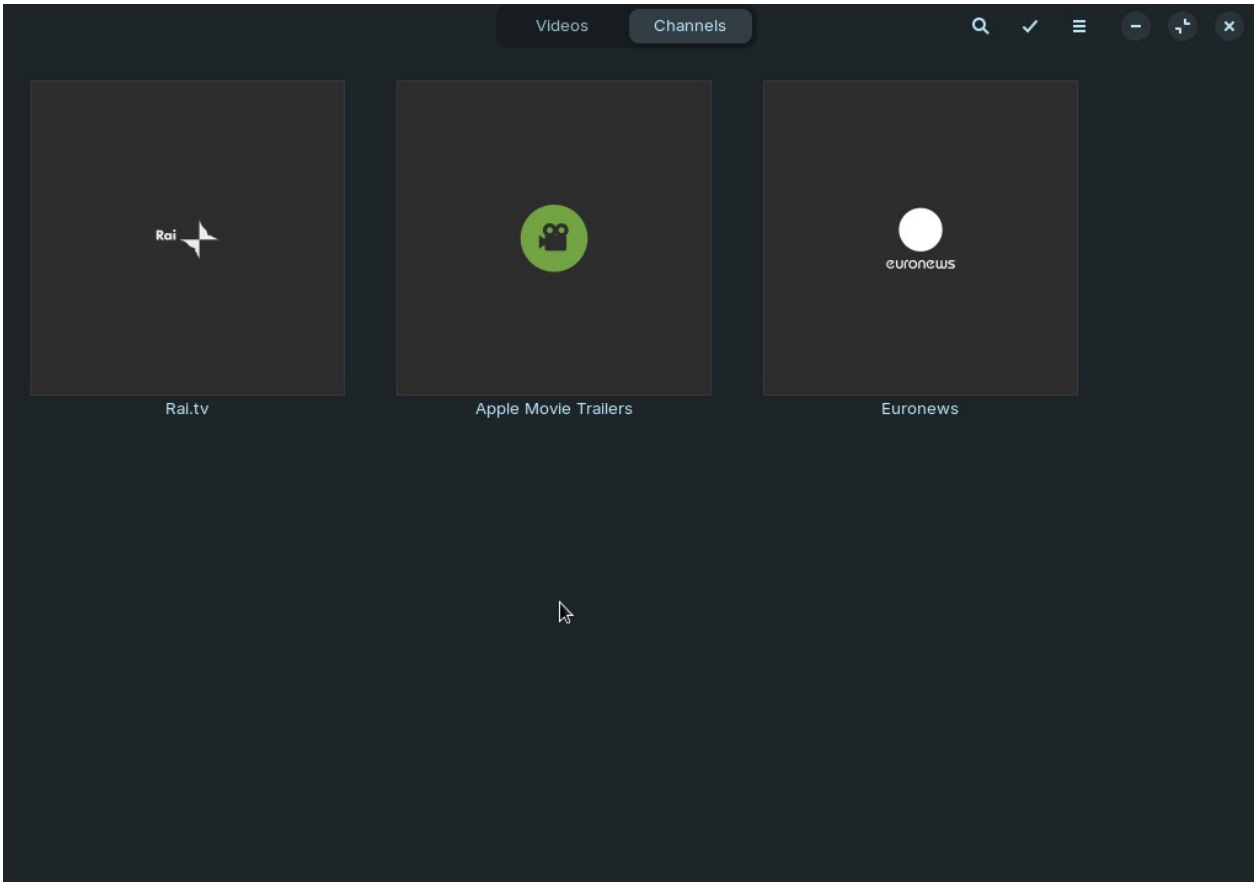
Currently I don’t have a webcam attached, hence the black screen!

Rhythmbox (Application to play your music collection, internet radio, online music accounts).

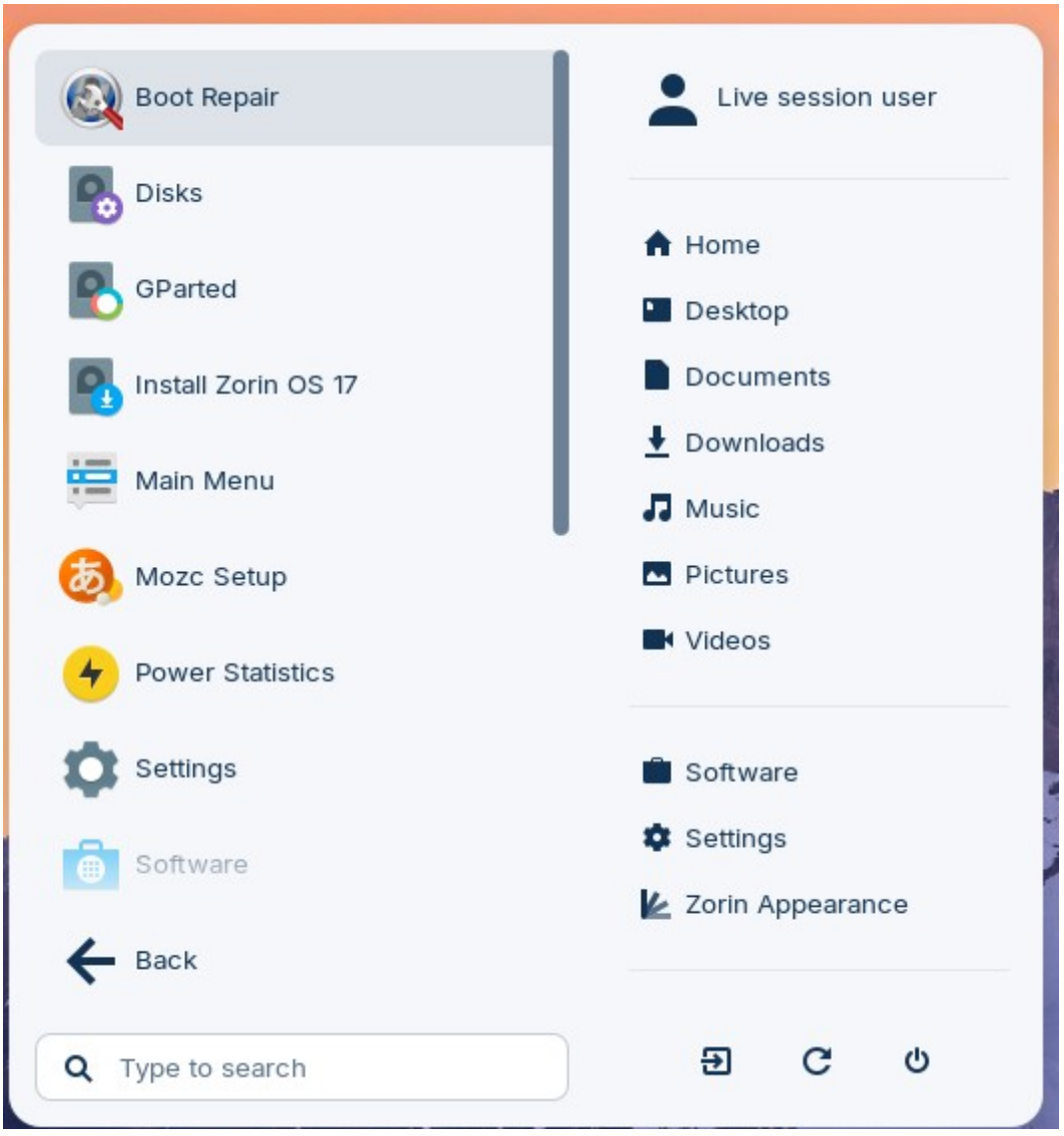



Songs
Categories
Library
Play Queue
Music
Podcasts
Radio
Last.fm
Libre.fm
Playlists
My Top Rated
Recently Added
Recently Played
Select a location containing music to add to your library:
Music
Copy files that are outside the music library
Import 0 listed tracks
Close
Track
Title
Genre
Artist
Album
Time

Videos (this is a multimedia application that can also play audio files as well as videos). Additionally can access Internet media streams as shown below.

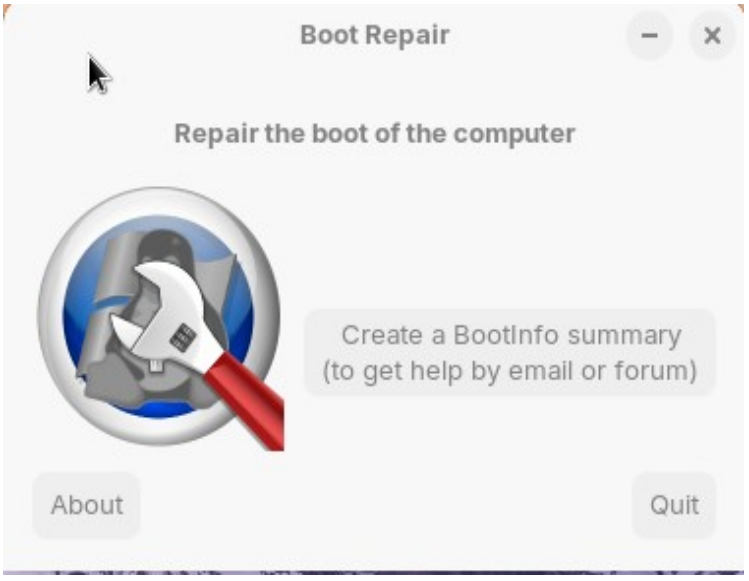


vi. a. System Tools – Top;

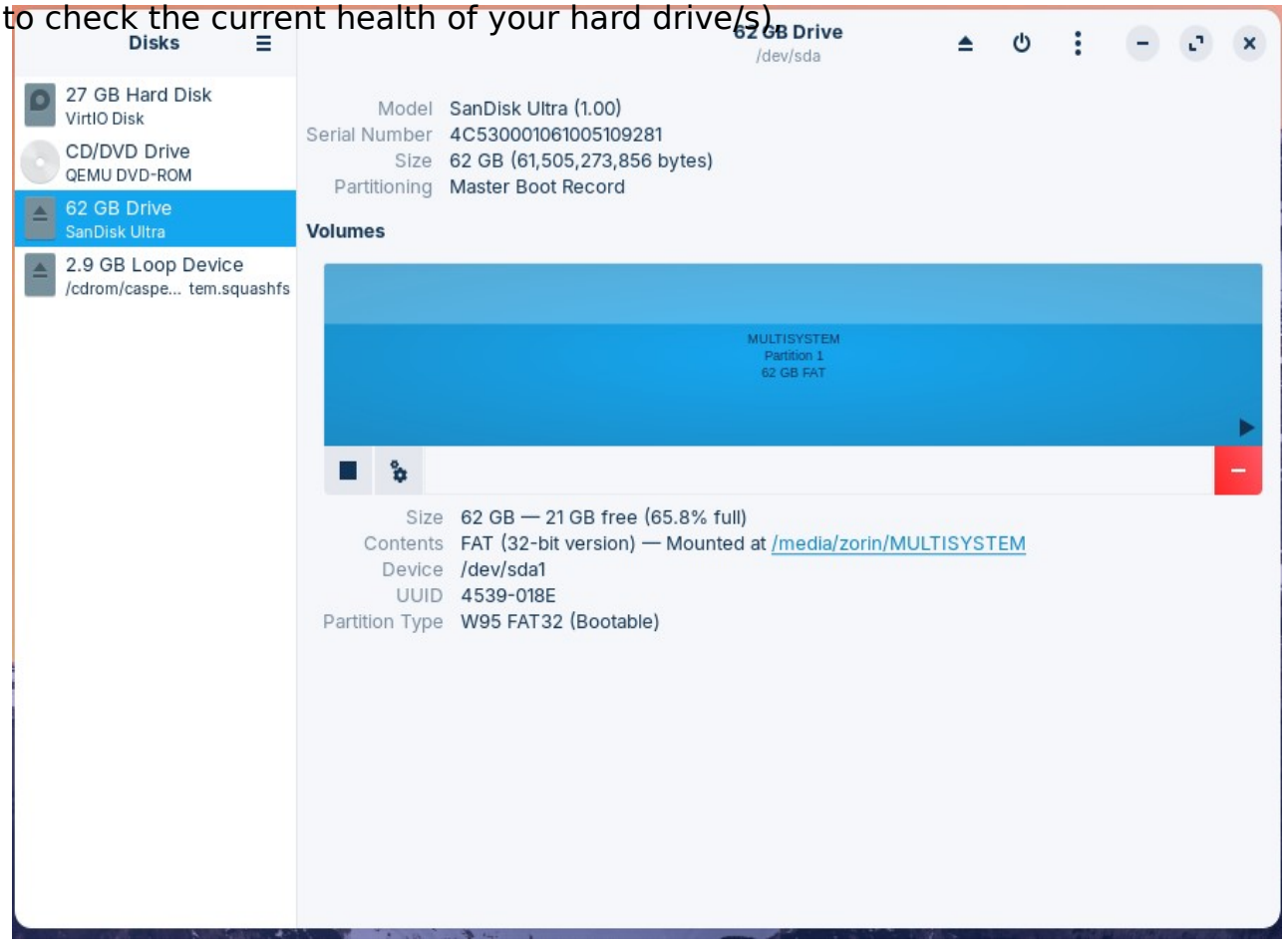


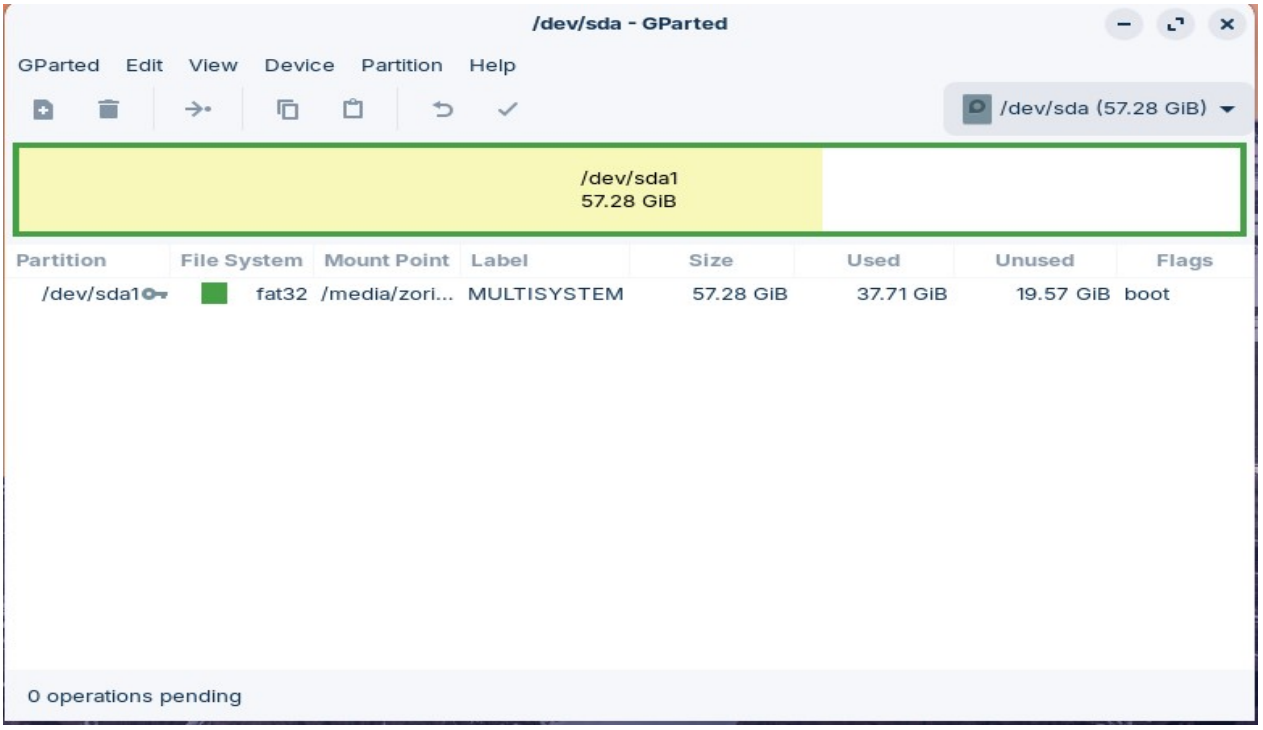
In live mode comprises **Boot Repair, Disks, GParted, Install Zorin OS 17, Main Menu, Mozc Setup, Power Statistics, Settings.**

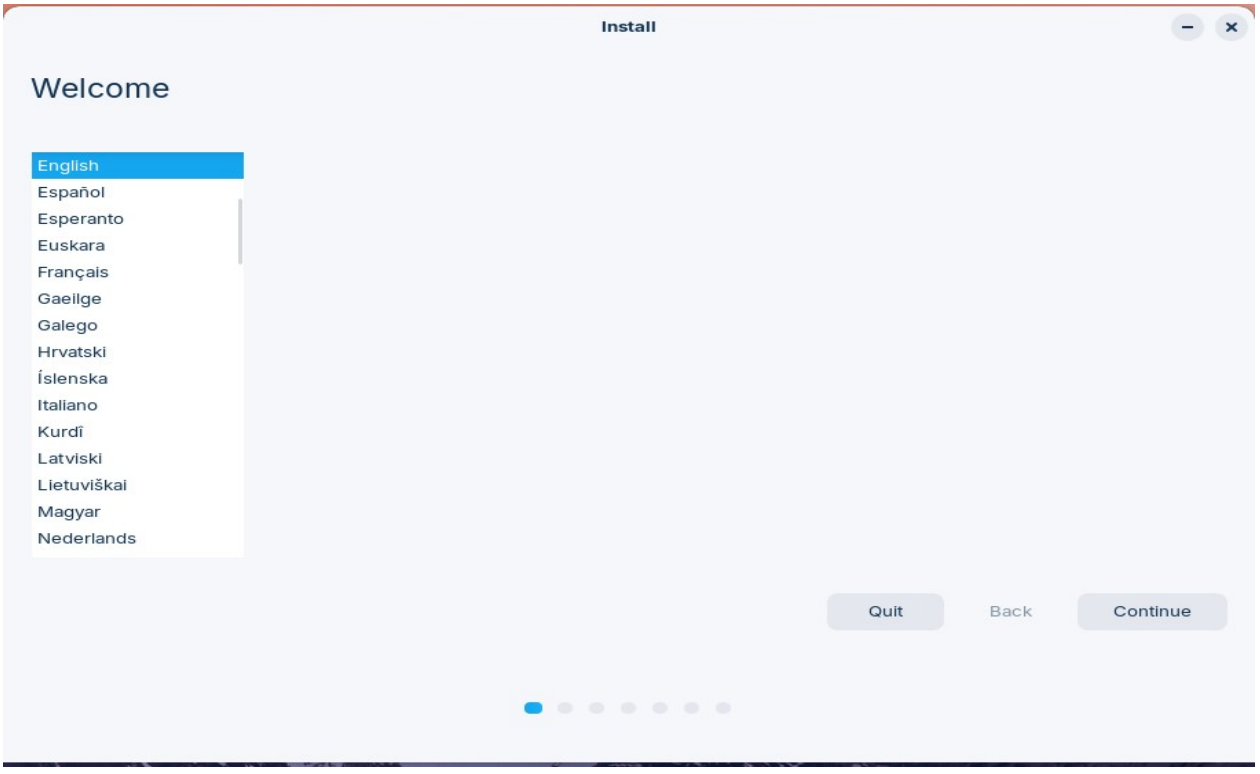
Boot Repair, (this item is only present while running in live mode, should you have issues with the installed system).



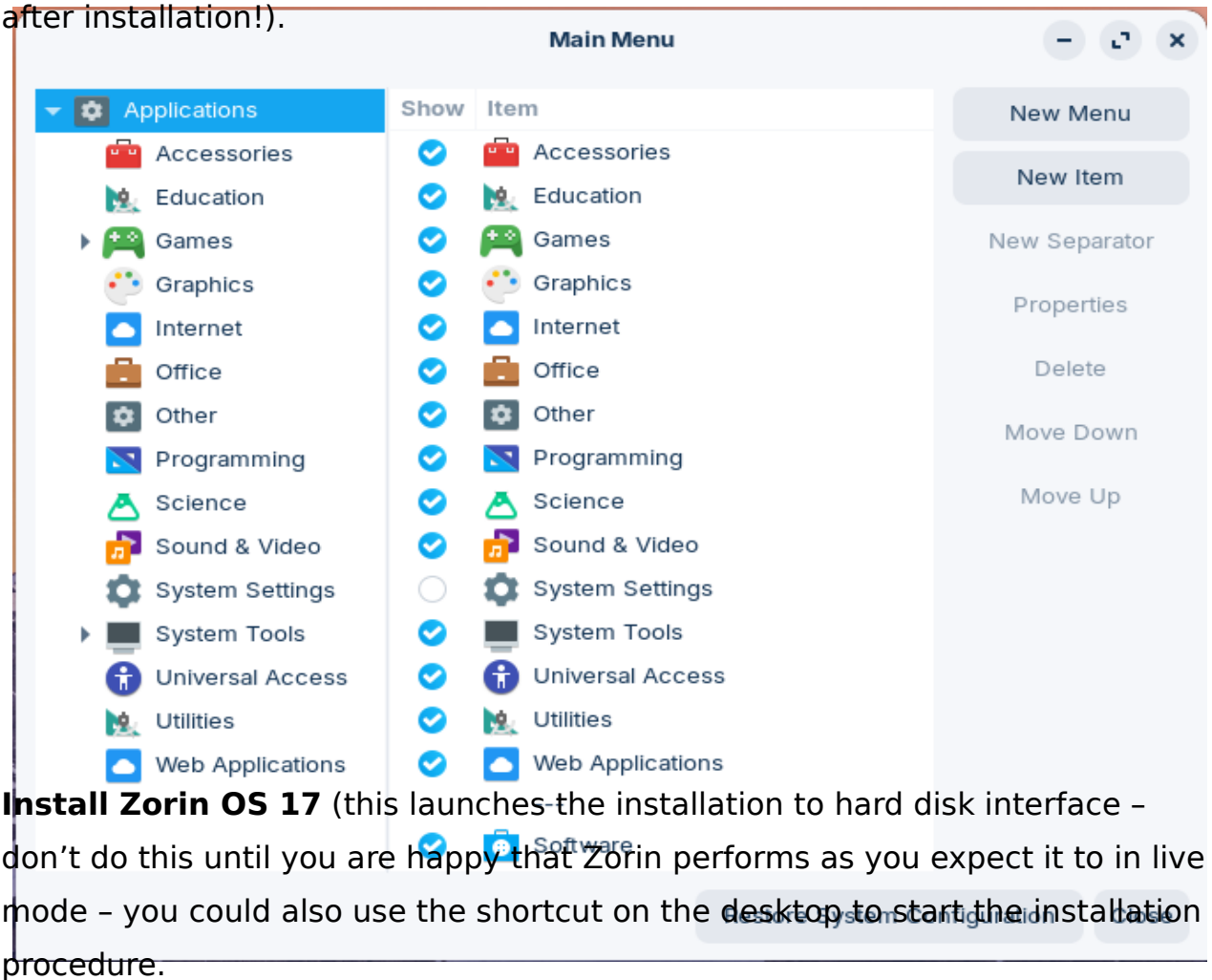
Disks (for mounting / unmounting and safely powering off / removing external / additional drives, including USB thumb drives, and can also be used to check the current health of your hard drive(s).



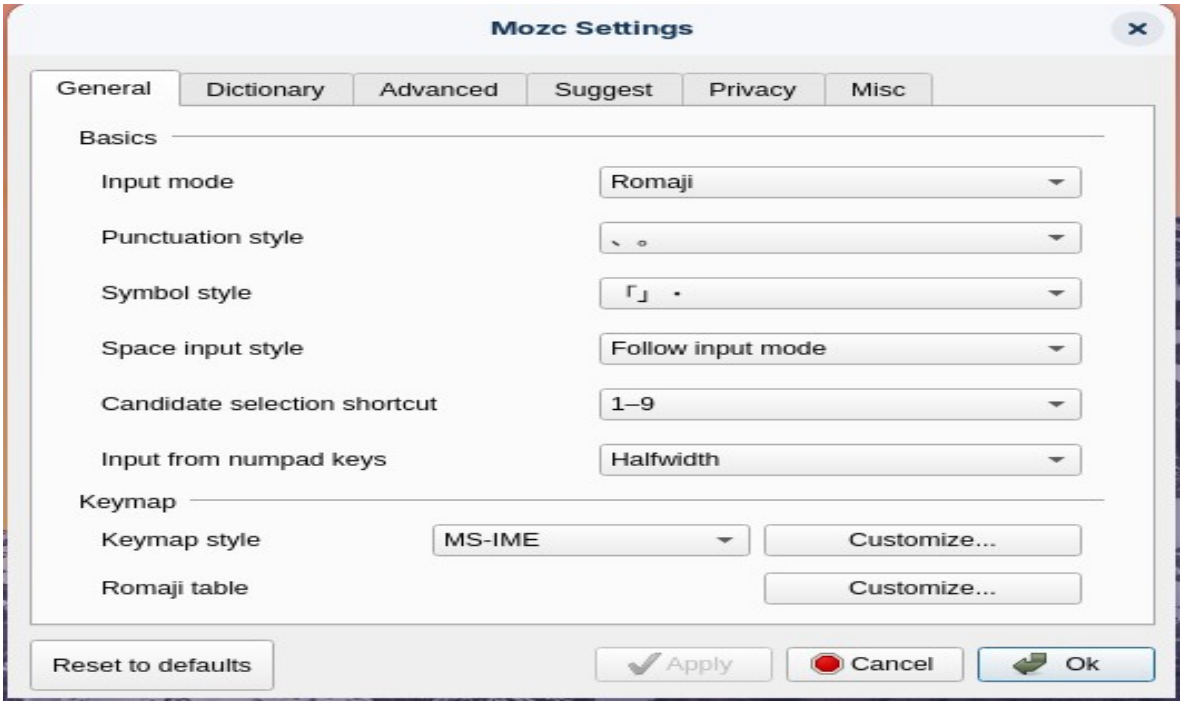

/dev/sda - GParted
GParted Edit View Device Partition Help
/dev/sda (57.28 GiB)
/dev/sda1
57.28 GiB
Partition File System Mount Point Label Size Used Unused Flags
/dev/sda1 fat32 /media/zori... MULTISYSTEM 57.28 GiB 37.71 GiB 19.57 GiB boot
0 operations pending

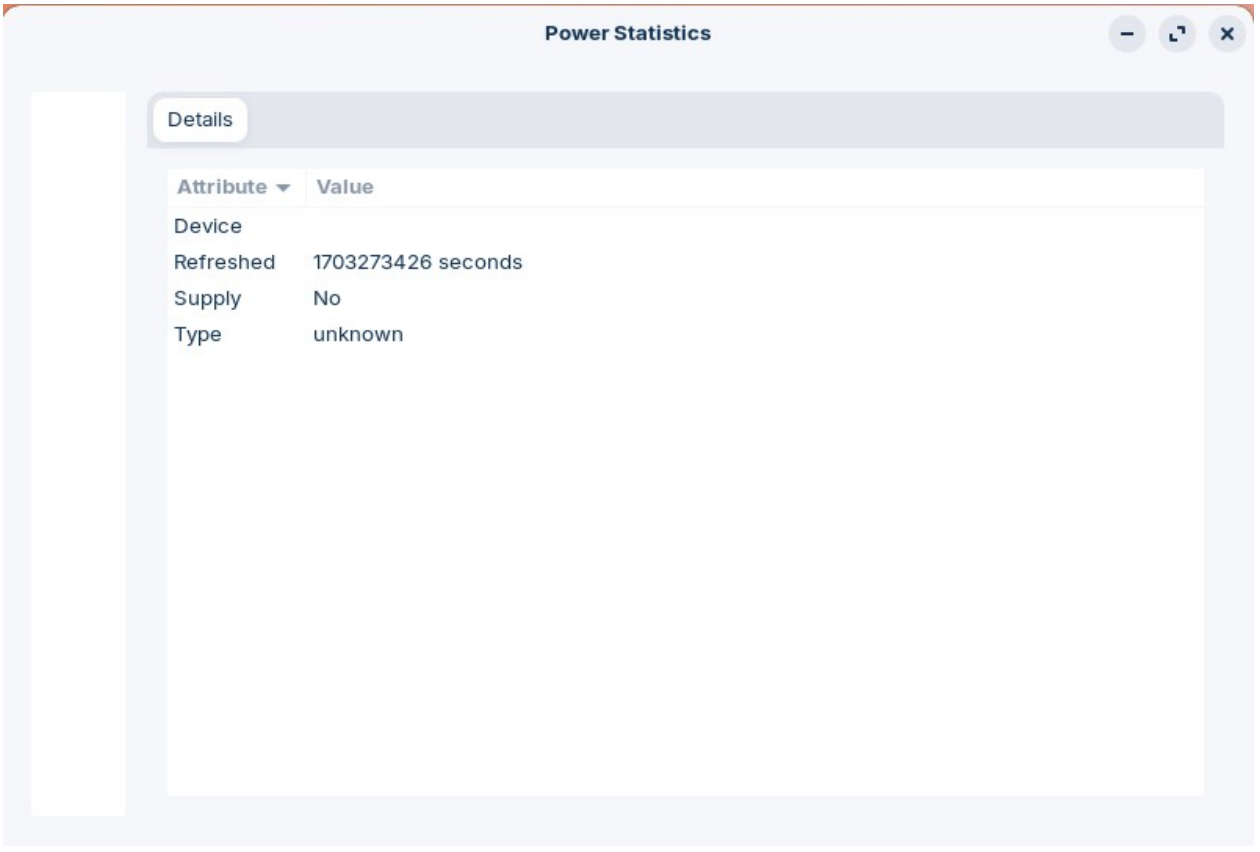

Install
Welcome
English
Español
Esperanto
Euskara
Français
Gaeilge
Galego
Hrvatski
Íslenska
Italiano
Kurdî
Latviski
Lietuviškai
Magyar
Nederlands
Quit
Back
Continue

Gparted (Gnome Partition Editor – for partitioning Hard Drive – gets removed after installation!).

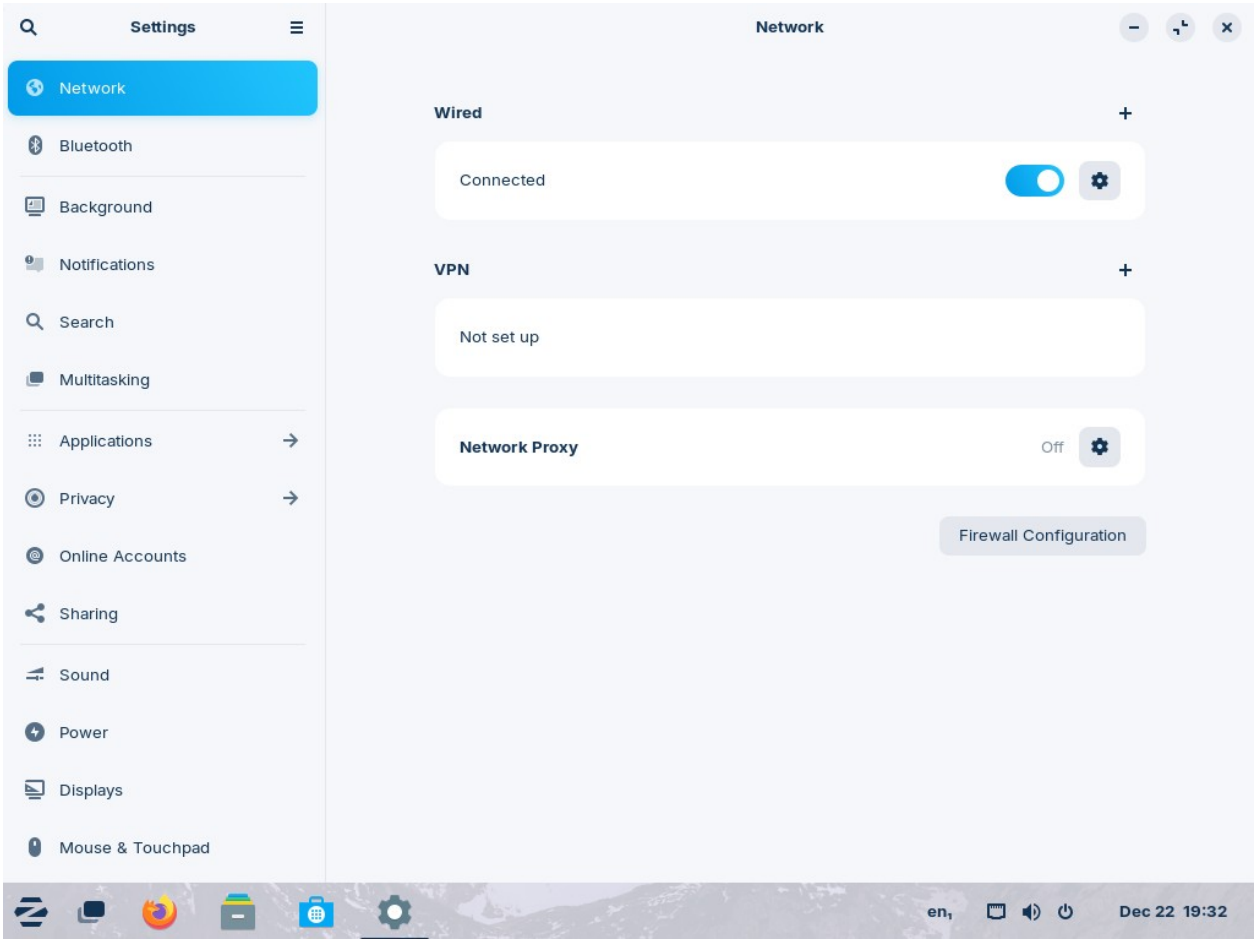


Install Zorin OS 17 (this launches the installation to hard disk interface – don't do this until you are happy that Zorin performs as you expect it to in live mode – you could also use the shortcut on the desktop to start the installation procedure.

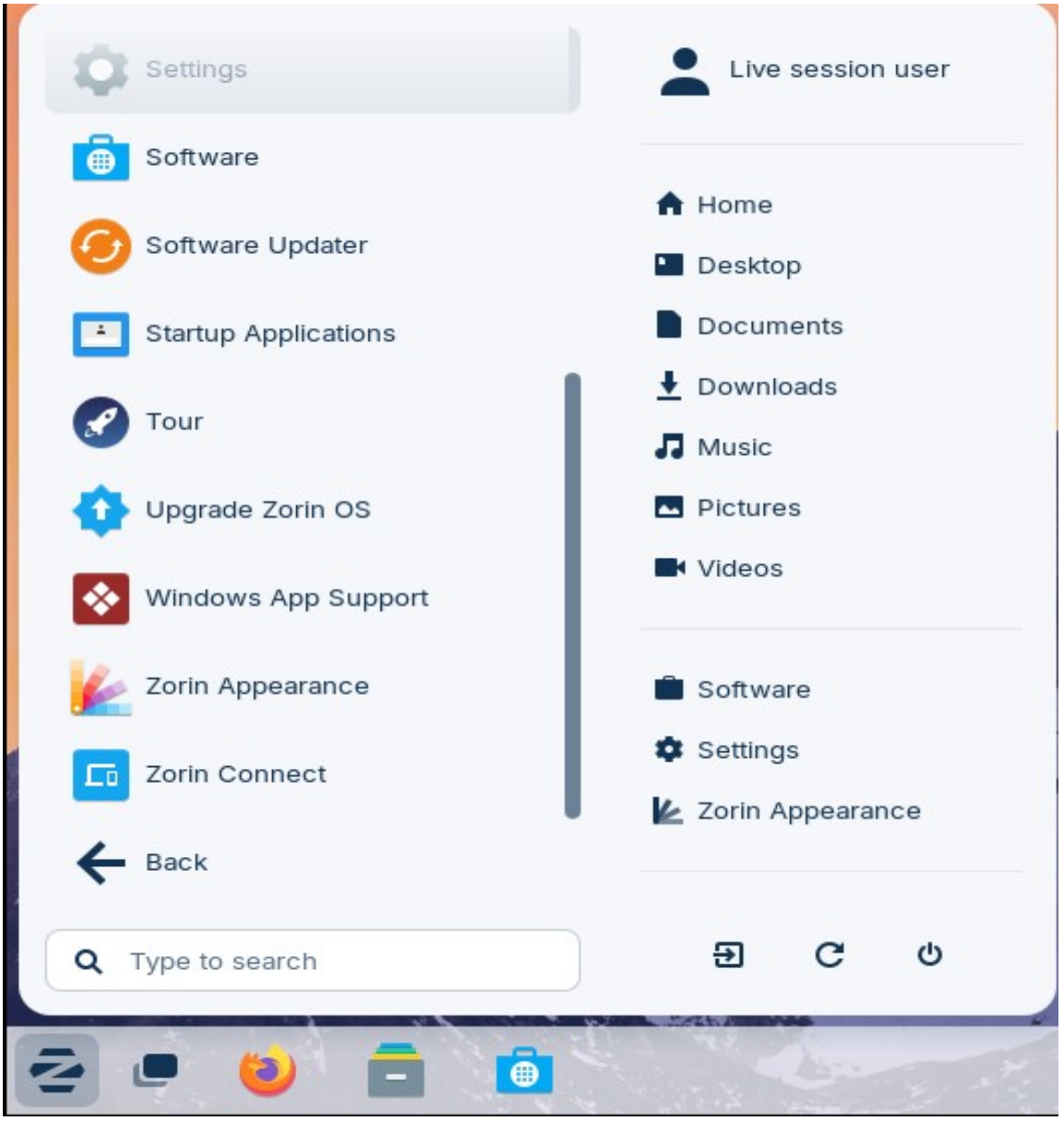



Power Statistics
Details
Attribute
Value
Device
Refreshed
1703273426 seconds
Supply
No
Type
unknown

Main Menu – (Al Acarte Menu editor to edit your main menu to show hide applications as you so wish and add new ones),



Mozc Setup, (Japanese Input settings),


Settings
Software
Software Updater
Startup Applications
Tour
Upgrade Zorin OS
Windows App Support
Zorin Appearance
Zorin Connect
Back
Type to search
Live session user
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Software
Settings
Zorin Appearance

Power Statistics (Processor wakeups information),

20

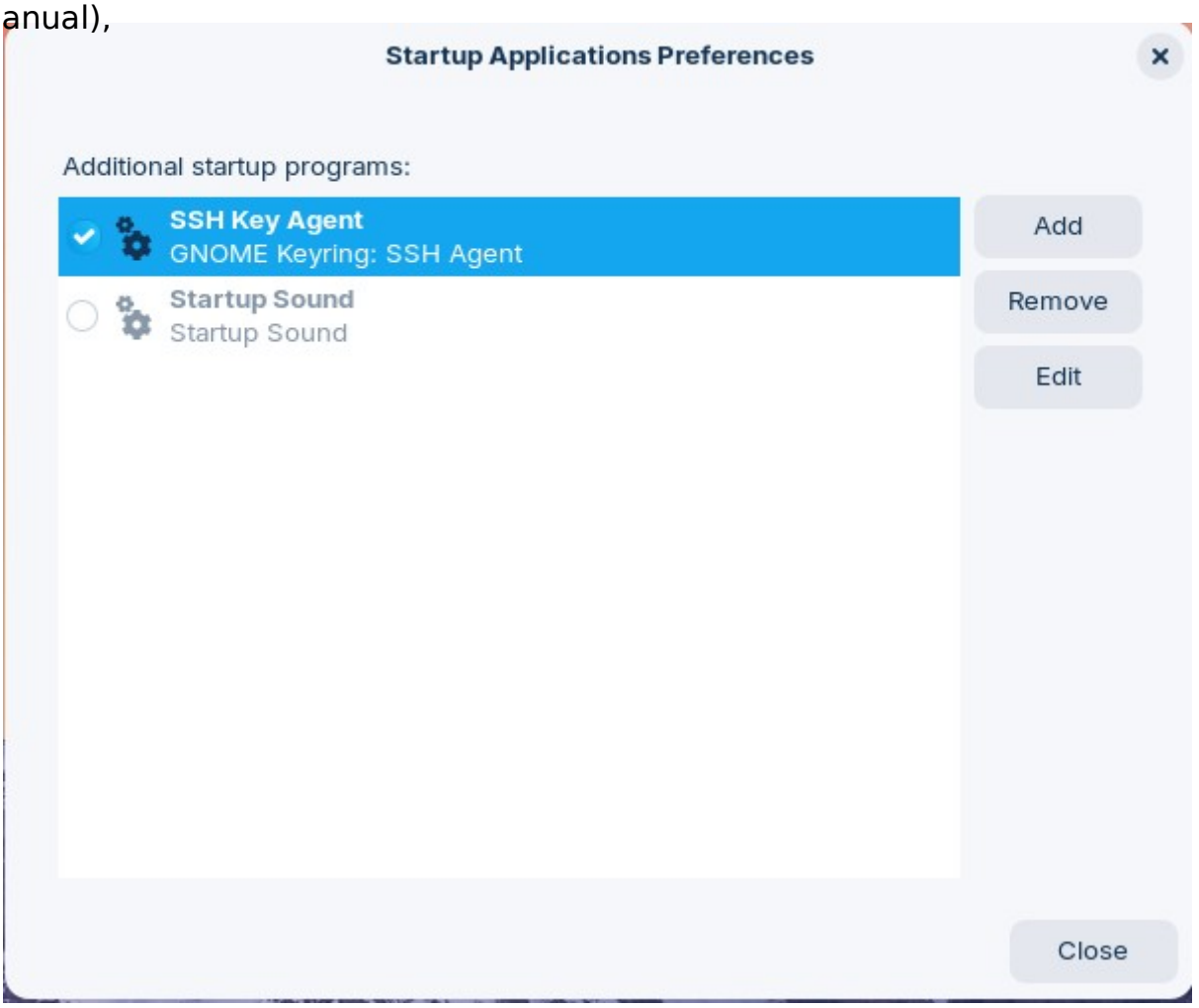
21

22

23

24 No information given as screenshot of Power Statistics is of VM (Virtual Machine).

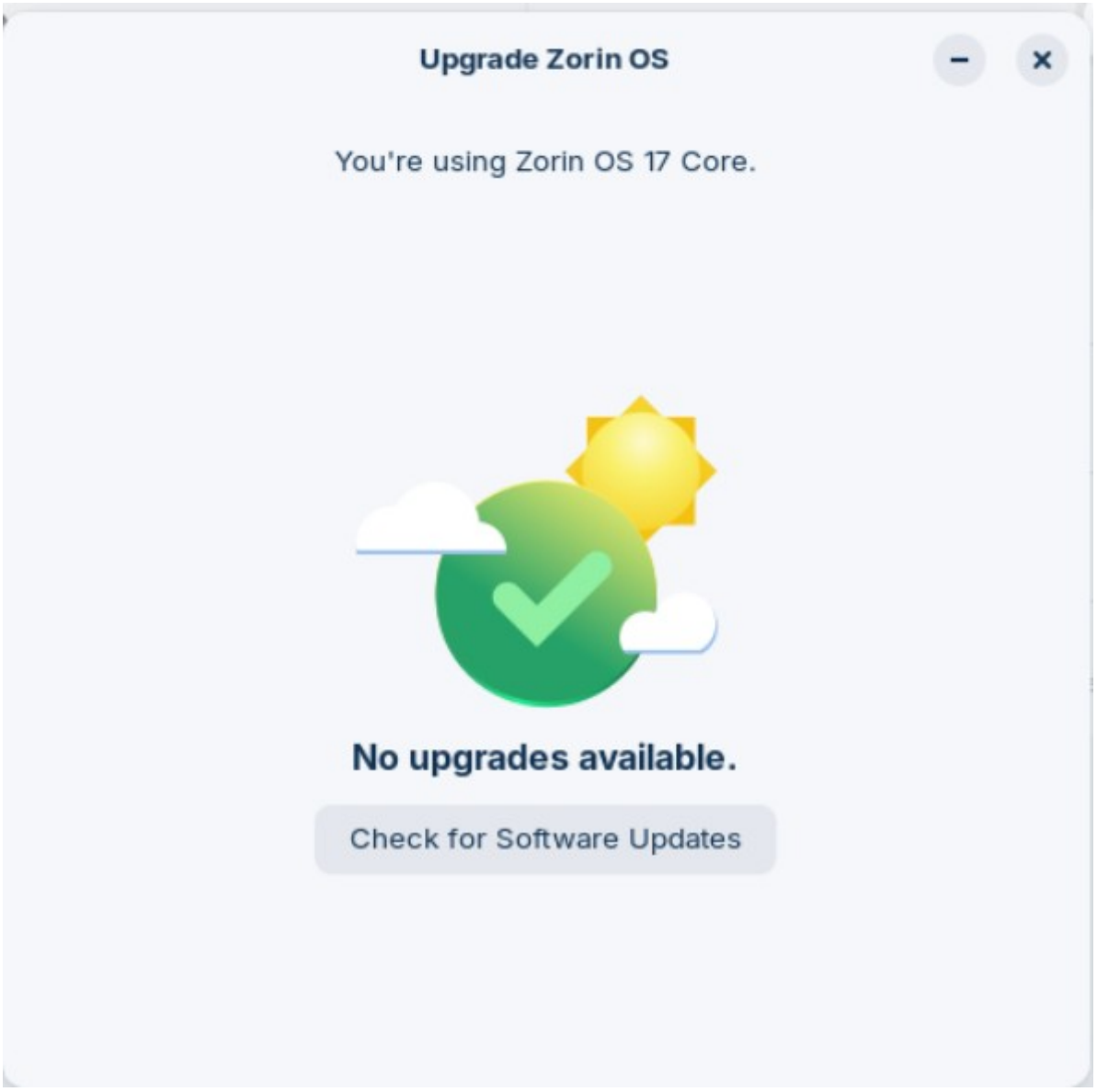
25 Settings (the GNU/Linux equivalent of ‘Control Panel’ but very different in lots of ways but simple enough to understand – covered later in the manual),



1 vi. b. System Tools – Bottom

Here we have **Software** (Main source of Applications, predominantly in **Flatpak** format, but other formats included, such as **APT**, **Software Updater** which updates your System Software as well as Applications, **Startup Applications** are those which start to run automatically immediately after you have signed in to the desktop, **Tour**, a slideshow presentation of guiding you round the layout and features of the OS (Operating System), **Upgrade Zorin OS** is a tool designed to allow you to upgrade to the next major release of Zorin, which will be 18 - the tool Is not currently ready for use with Zorin 17, but is available for Zorin 15 for those wishing to upgrade to 16, and for Zorin

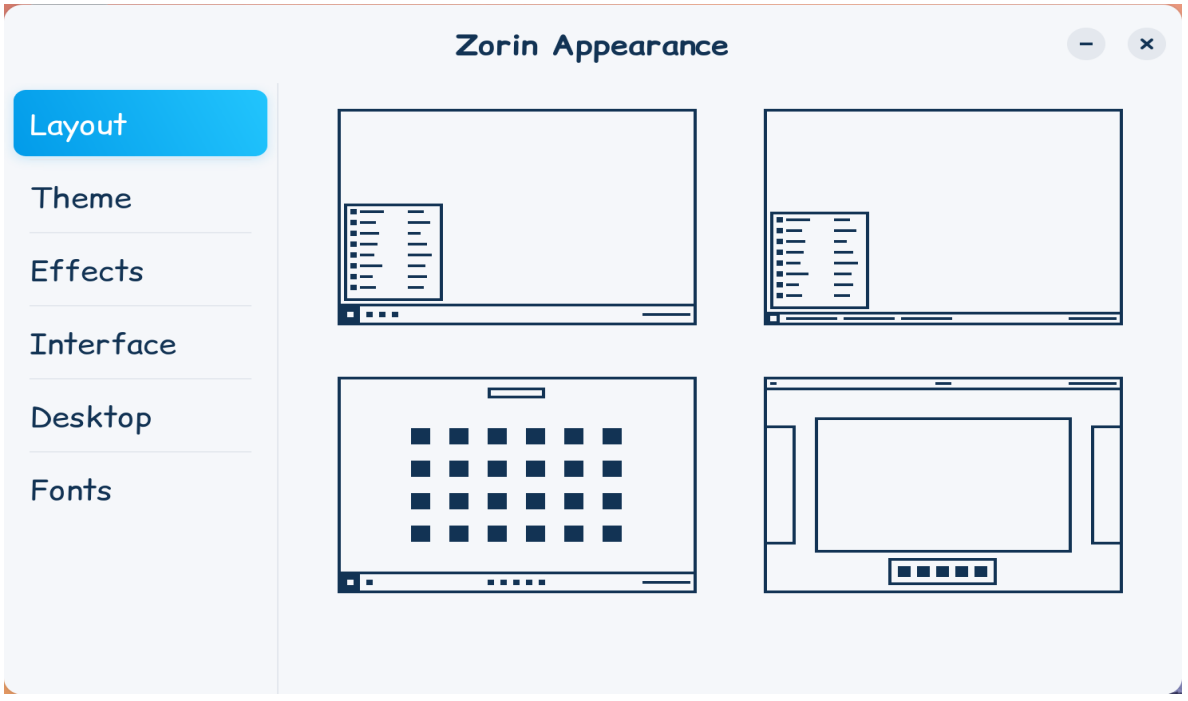
16 users it is also available to upgrade to the latest release, 17.

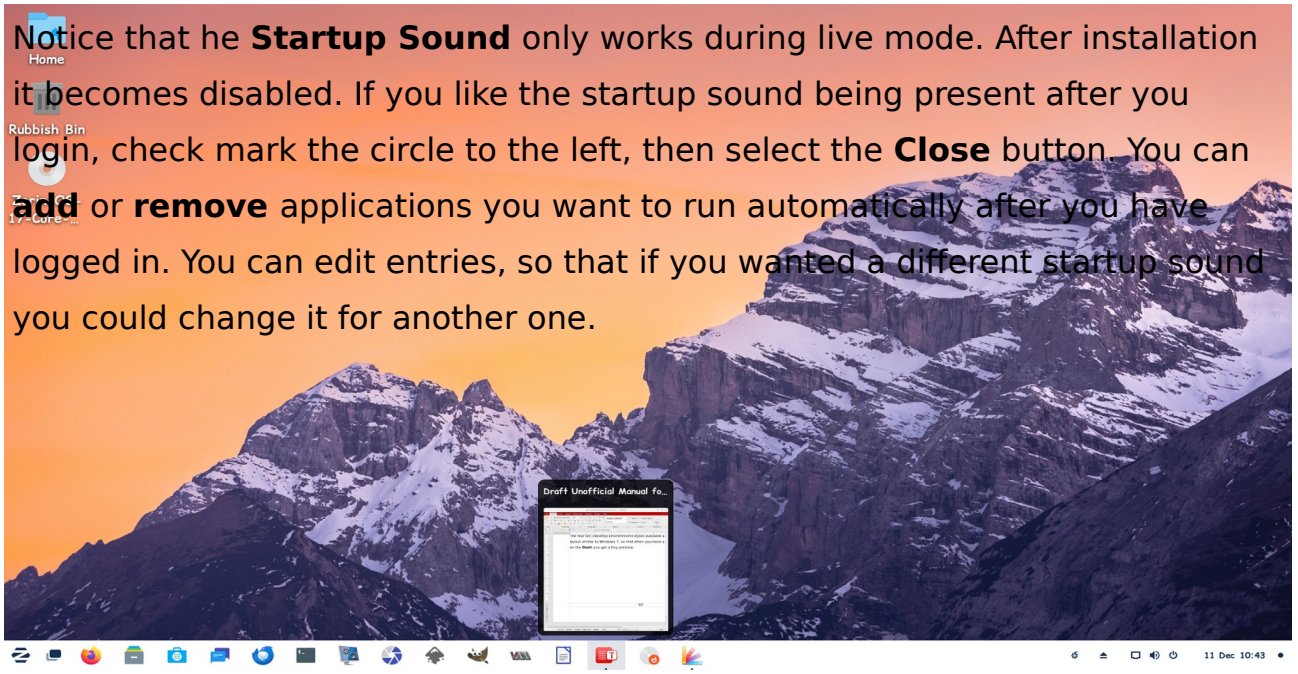


Windows App Support, when you select this it will install the current stable version of **WINE** (Wine Is No Emulator), together with **PlayOnLinux**, **Zorin Appearance** contains a multitude of different ways for your Desktop to look and behave, and lastly **Zorin Connect**, software which enables your smartphone to be connected to your Zorin Desktop.

Software has been covered elsewhere in the manual(see page 26), so will now look at:

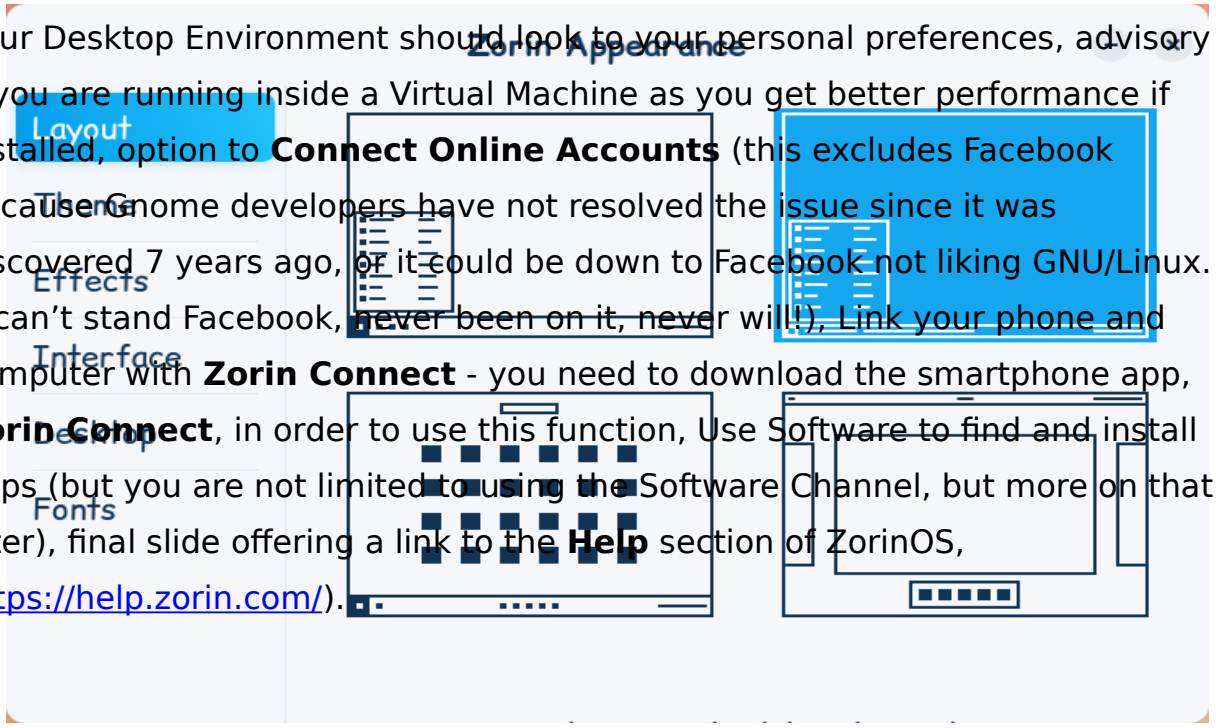
Startup Applications:

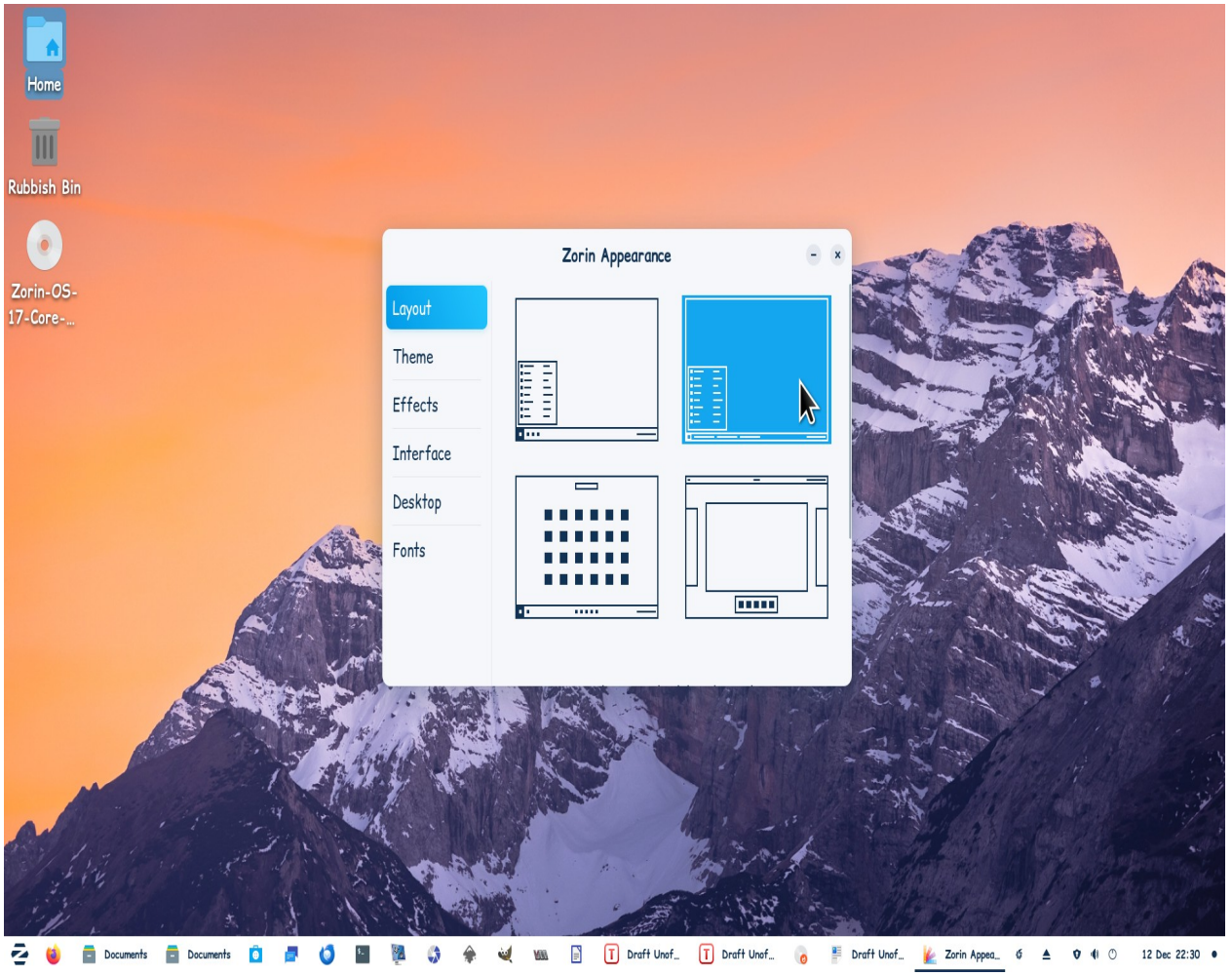




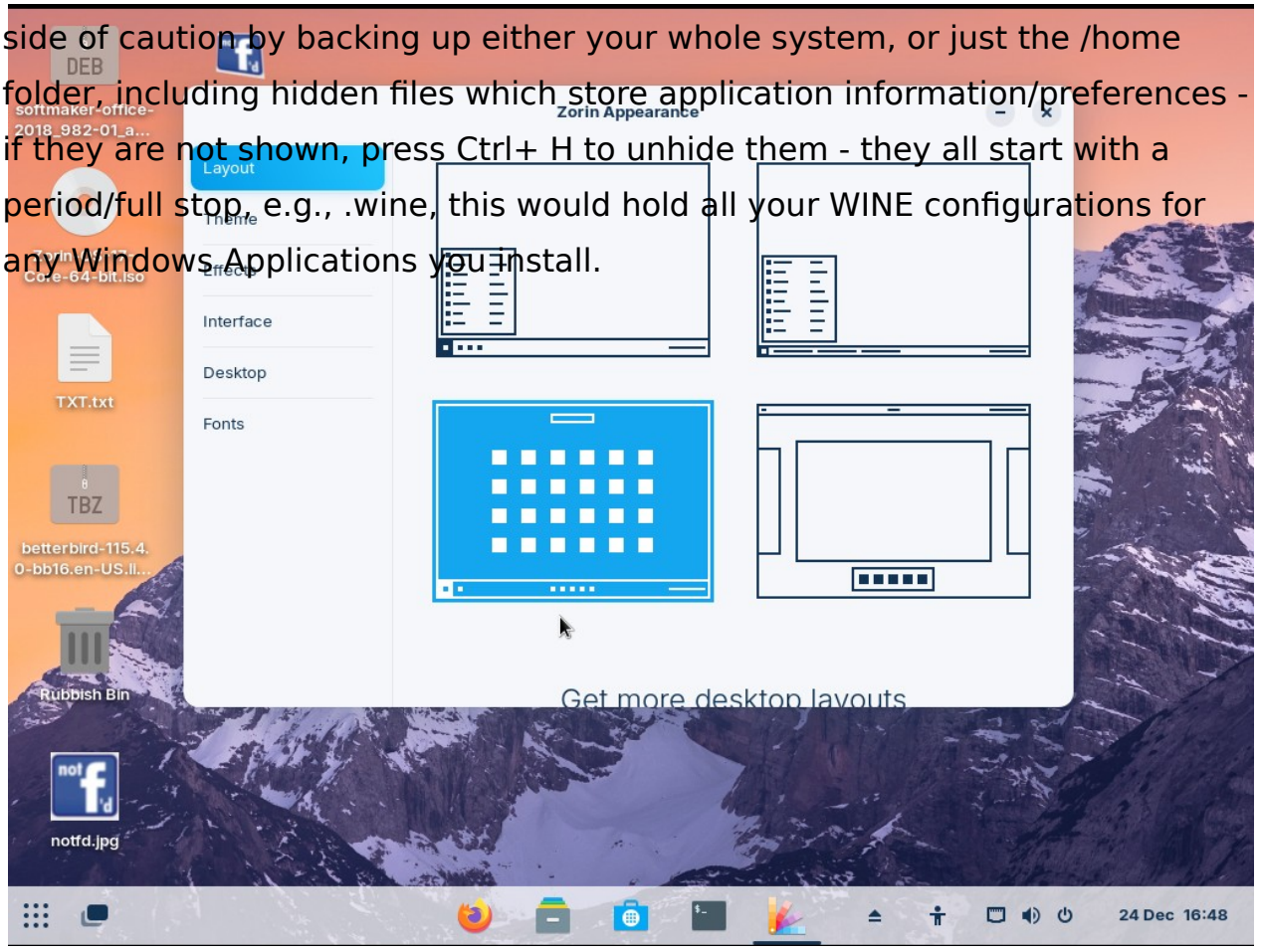
Notice that he **Startup Sound** only works during live mode. After installation it becomes disabled. If you like the startup sound being present after you login, check mark the circle to the left, then select the **Close** button. You can **add** or **remove** applications you want to run automatically after you have logged in. You can edit entries, so that if you wanted a different startup sound you could change it for another one.

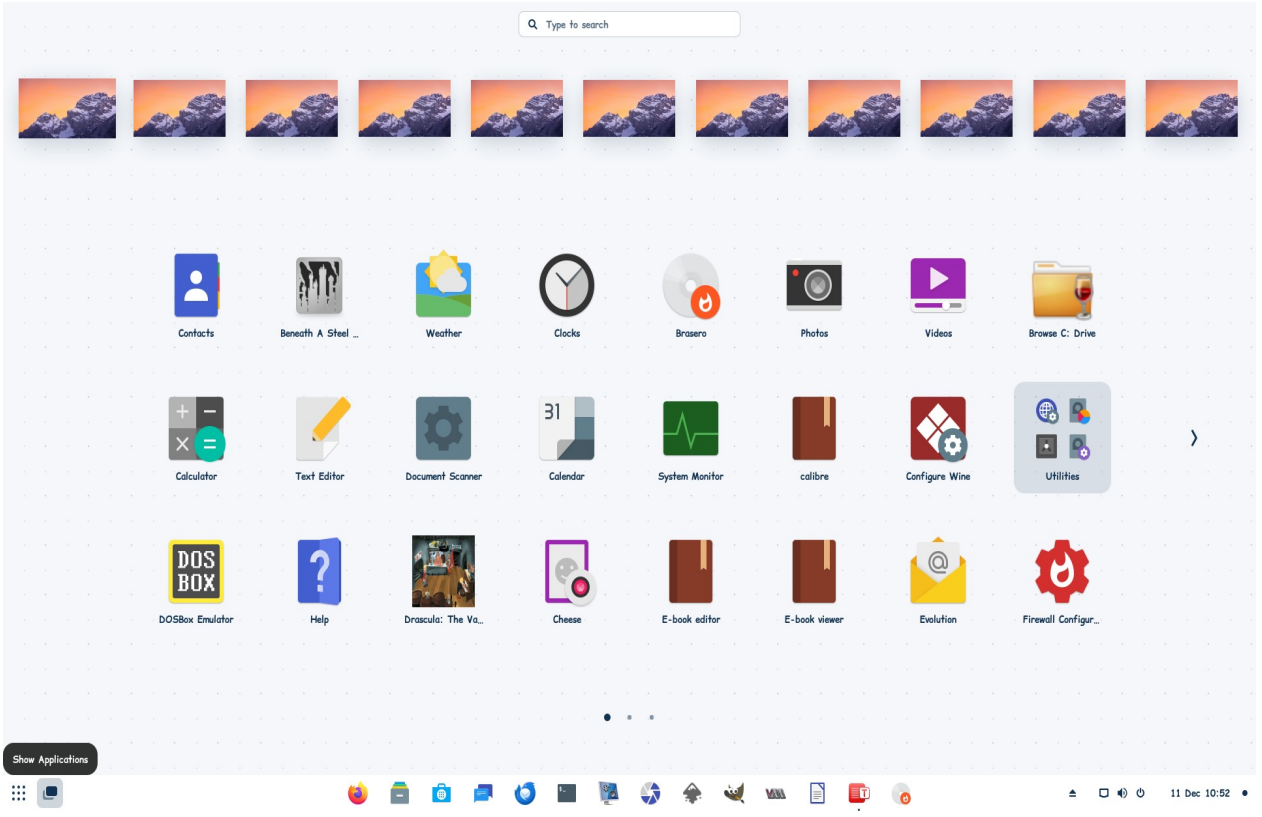
Tour (This is a slideshow built into the system to help show you around the **Desktop**, starting with the **Menu**, then **Appearance** (where you choose how your Desktop Environment should look to your personal preferences, advisory if you are running inside a Virtual Machine as you get better performance if installed, option to **Connect Online Accounts** (this excludes Facebook because Gnome developers have not resolved the issue since it was discovered 7 years ago, or it could be down to Facebook not liking GNU/Linux. (I can't stand Facebook, never been on it, never will!), Link your phone and computer with **Zorin Connect** - you need to download the smartphone app, **Zorin Connect**, in order to use this function, Use Software to find and install apps (but you are not limited to using the Software Channel, but more on that later), final slide offering a link to the **Help** section of ZorinOS, https://help.zorin.com/).





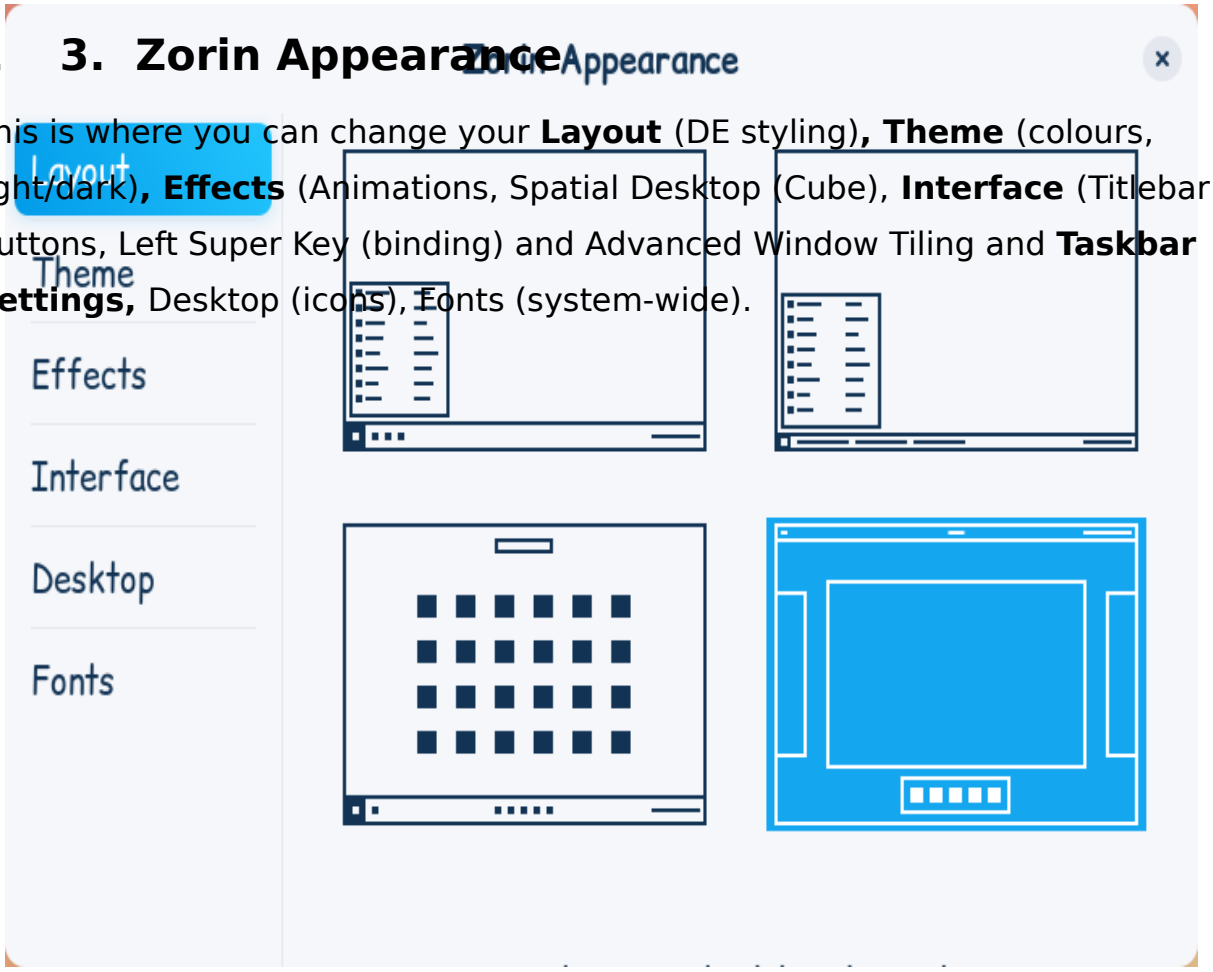
Upgrade Zorin OS - This is the upgrade tool that allows you to upgrade to the newest version of Zorin OS. Once it is up and running, always err on the side of caution by backing up either your whole system, or just the /home folder, including hidden files which store application information/preferences - if they are not shown, press Ctrl+ H to unhide them - they all start with a period/full stop, e.g., .wine, this would hold all your WINE configurations for any Windows Applications you install.



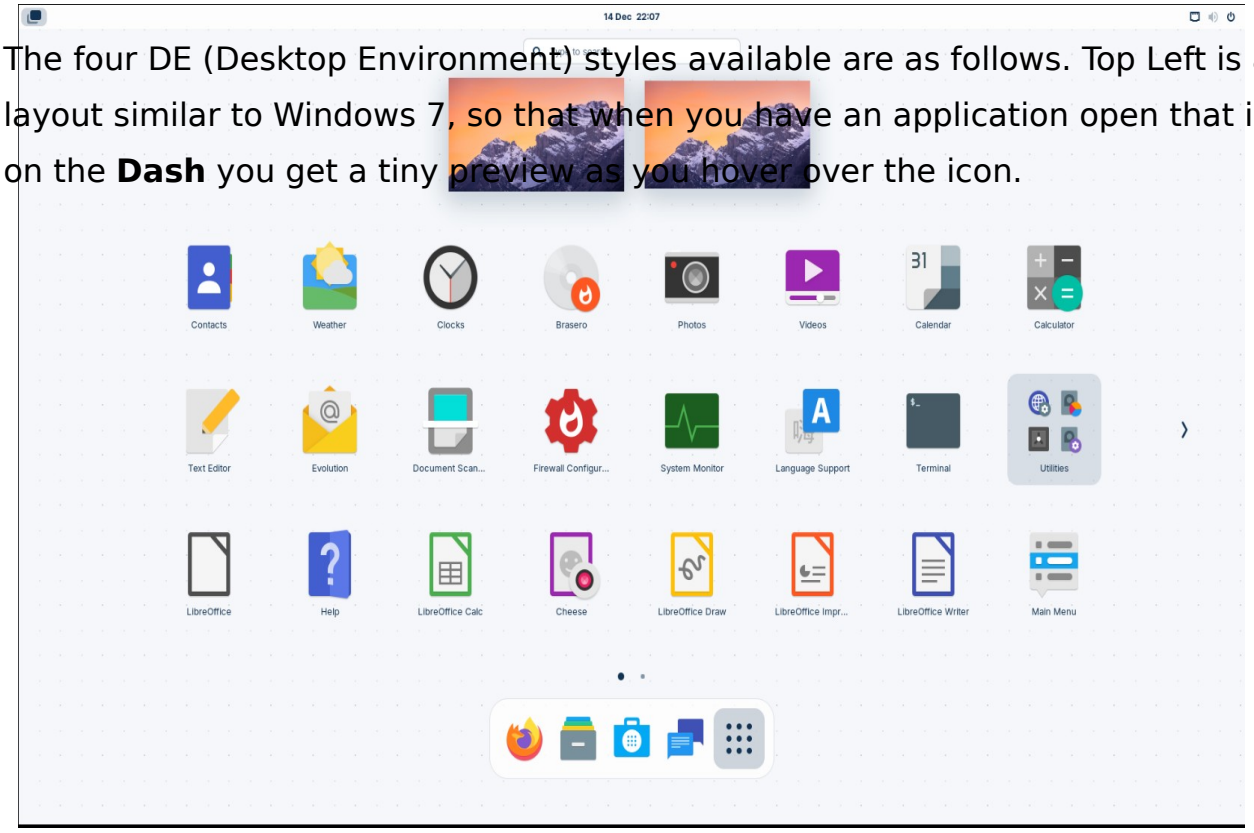


Windows App Support - This installs the current version of **WINE (WINE Is No Emulator)**, including **PlayOnLinux** for you to install Windows Applications/Games. Please be aware that not all Windows Applications will run using WINE. To find out what runs, visit the commercial site of the WINE developers here:
https://www.codeweavers.com/compatibility

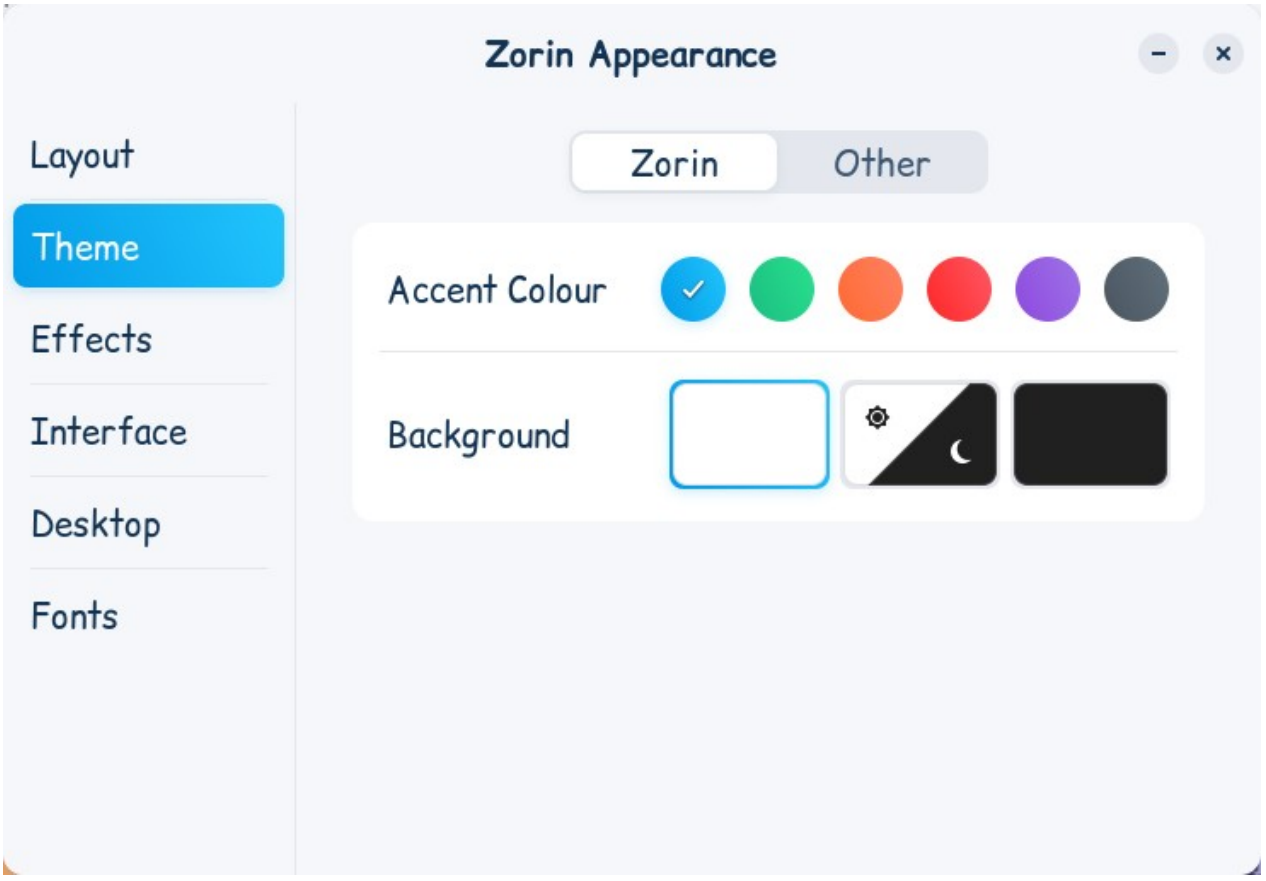
1 3. Zorin Appearance



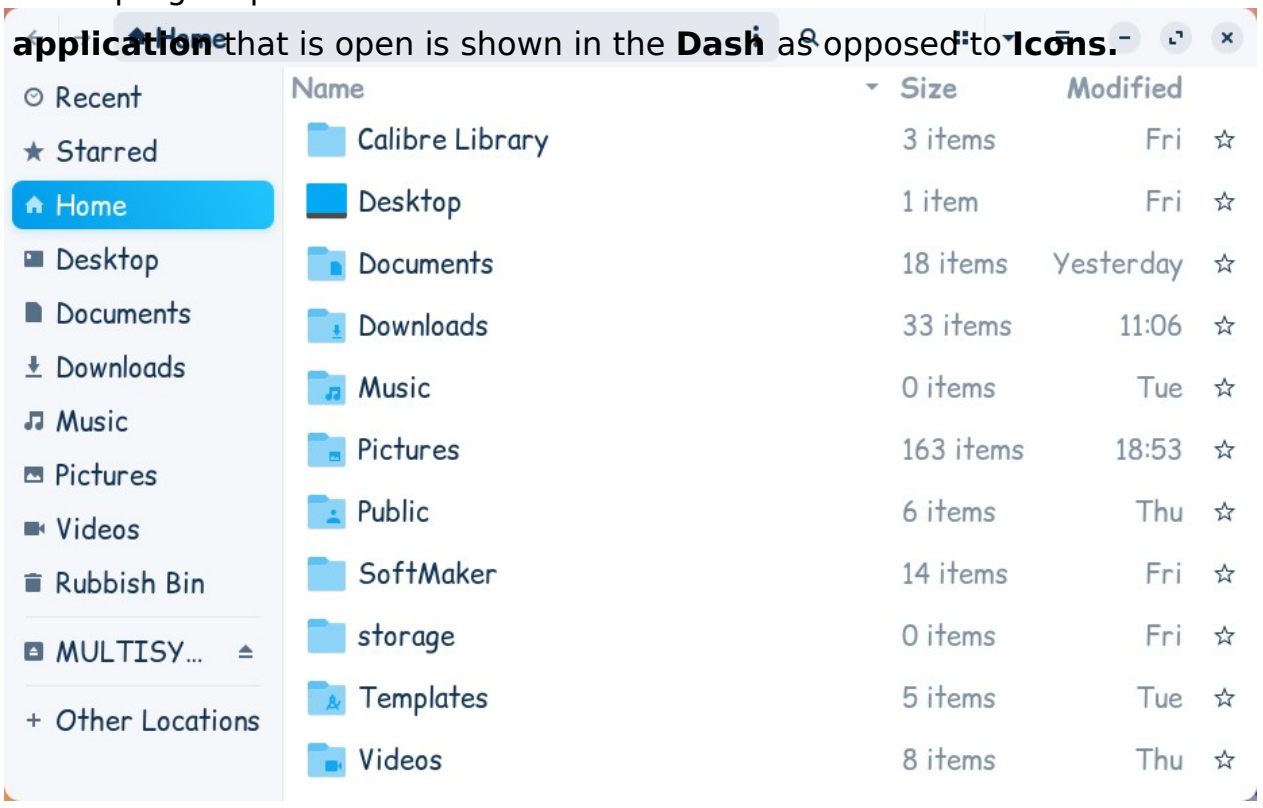
This is where you can change your **Layout** (DE styling)**, Theme** (colours, light/dark)**, Effects** (Animations, Spatial Desktop (Cube), **Interface** (Titlebar Buttons, Left Super Key (binding) and Advanced Window Tiling and **Taskbar Settings,** Desktop (icons), Fonts (system-wide).

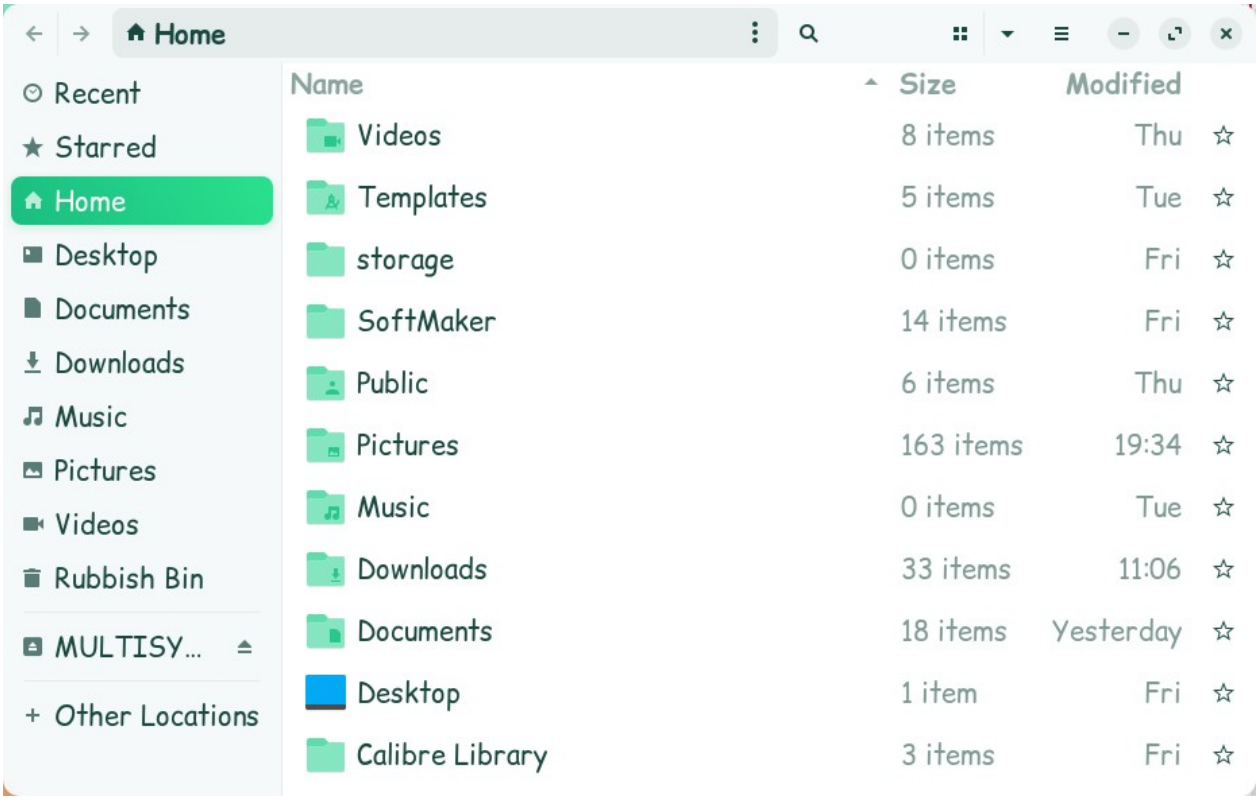


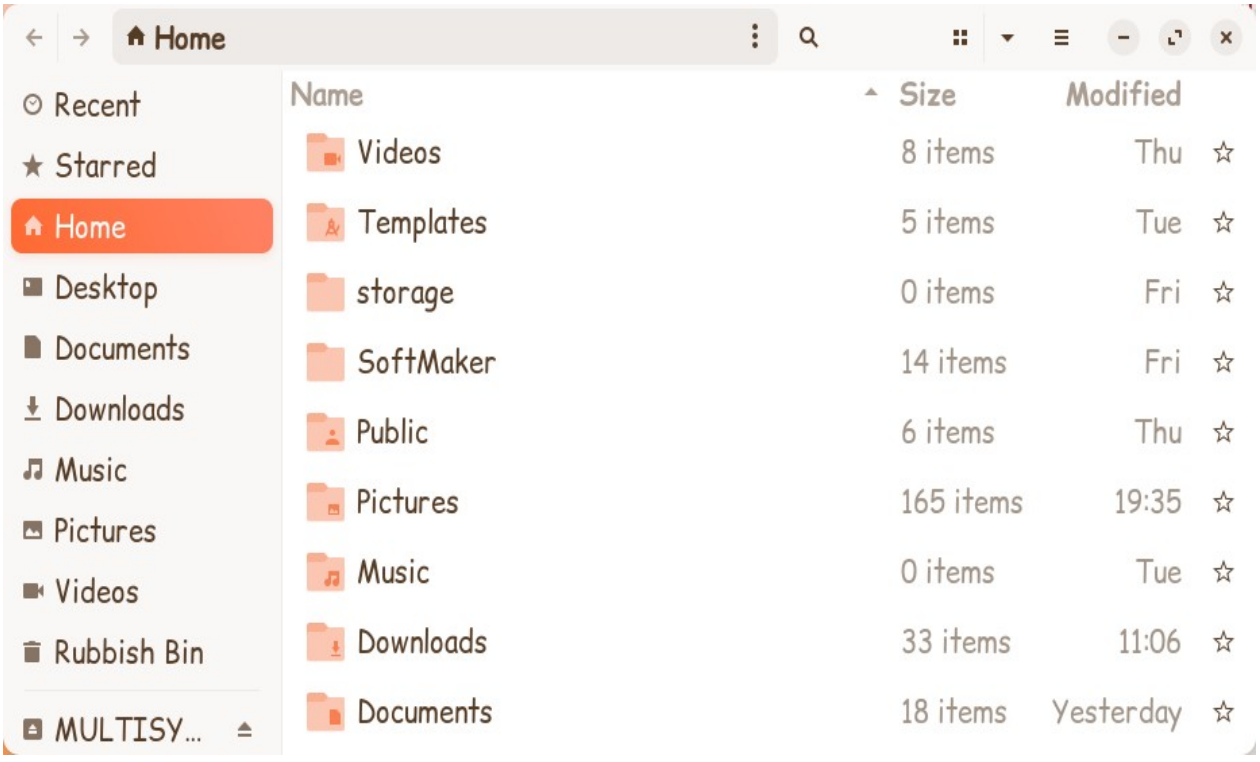
The four DE (Desktop Environment) styles available are as follows. Top Left is a layout similar to Windows 7, so that when you have an application open that is on the **Dash** you get a tiny preview as you hover over the icon.

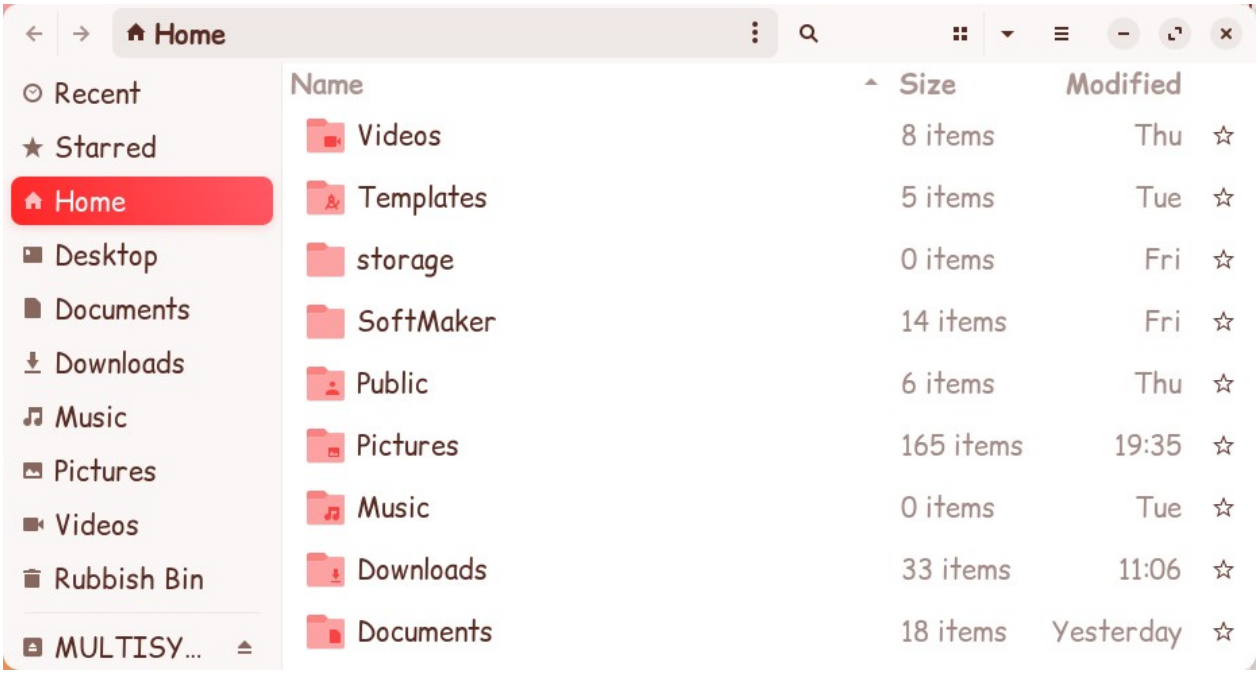

Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Accent Colour
Background

The top right option is more like Windows 2000 where the **name of the application** that is open is shown in the **Dash** as opposed to **Icons.**

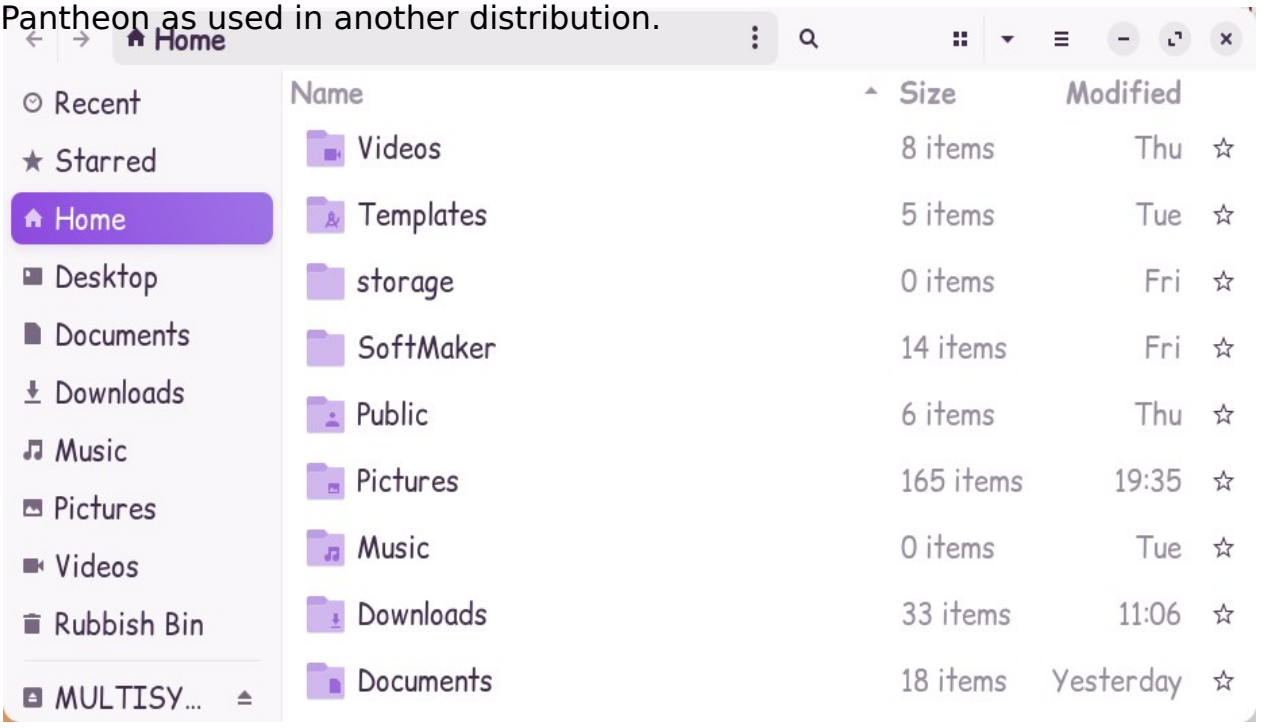


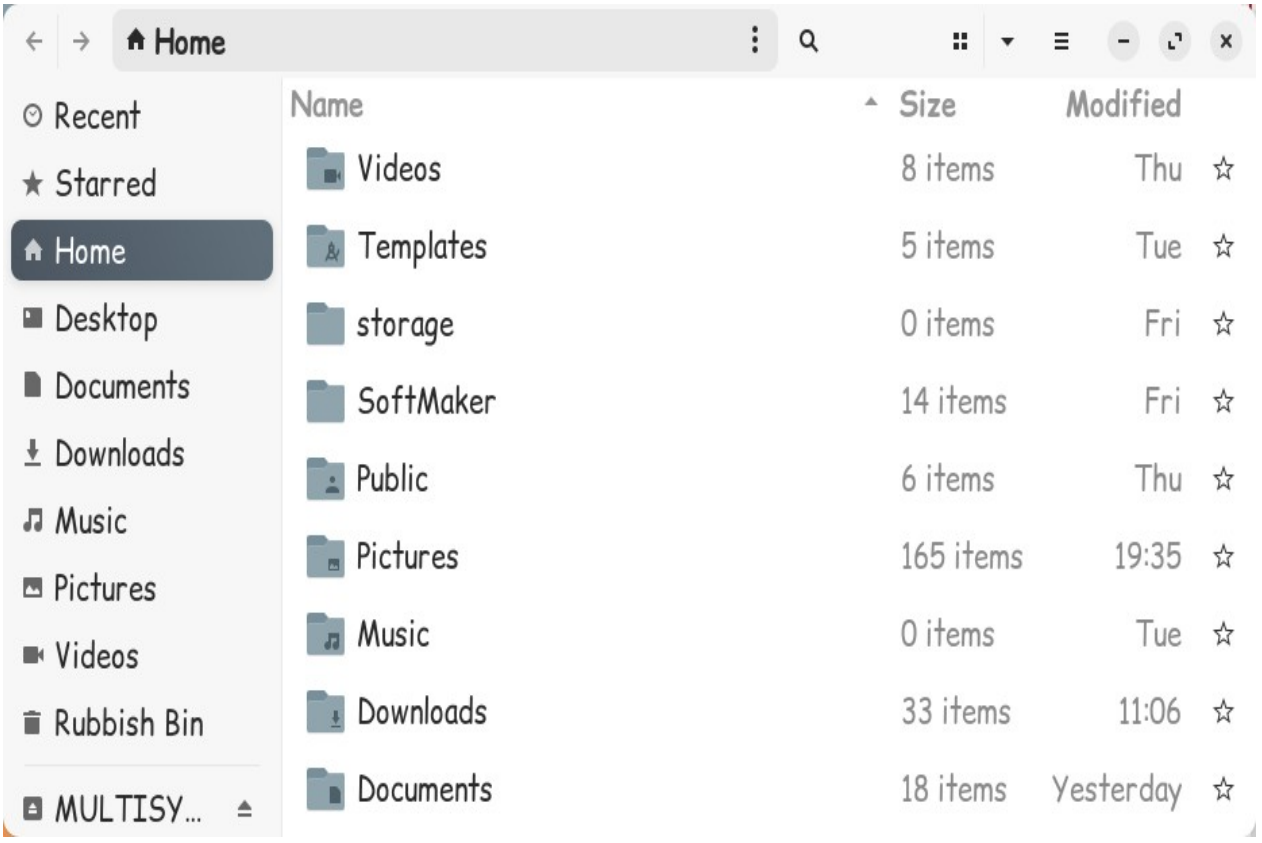


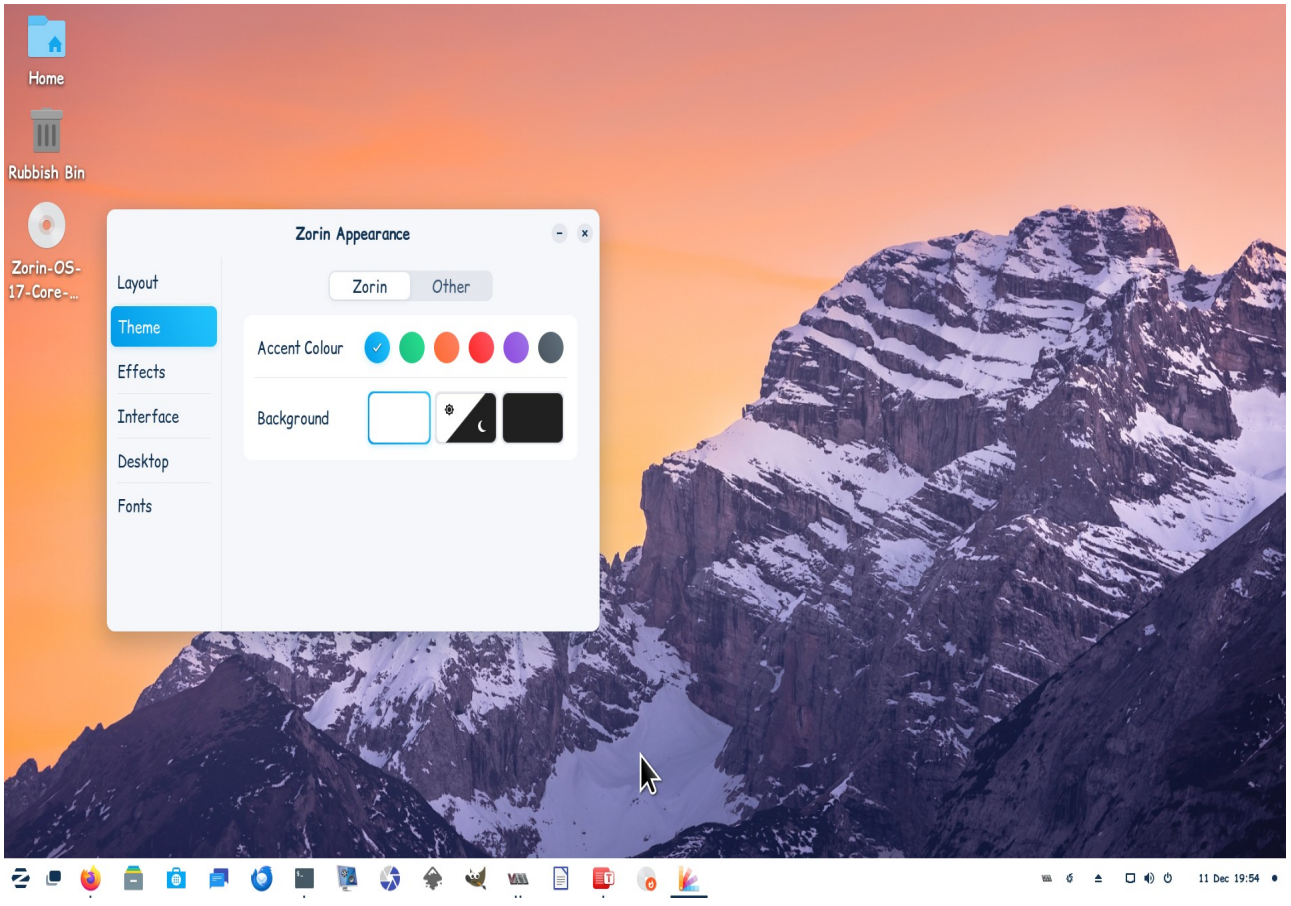

Home
Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Rubbish Bin
MULTISY...
Name
Size
Modified
Videos 8 items Thu
Templates 5 items Tue
storage 0 items Fri
SoftMaker 14 items Fri
Public 6 items Thu
Pictures 165 items 19:35
Music 0 items Tue
Downloads 33 items 11:06
Documents 18 items Yesterday


Home
Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Rubbish Bin
MULTISY...
Name
Size
Modified
Videos 8 items Thu
Templates 5 items Tue
storage 0 items Fri
SoftMaker 14 items Fri
Public 6 items Thu
Pictures 165 items 19:35
Music 0 items Tue
Downloads 33 items 11:06
Documents 18 items Yesterday

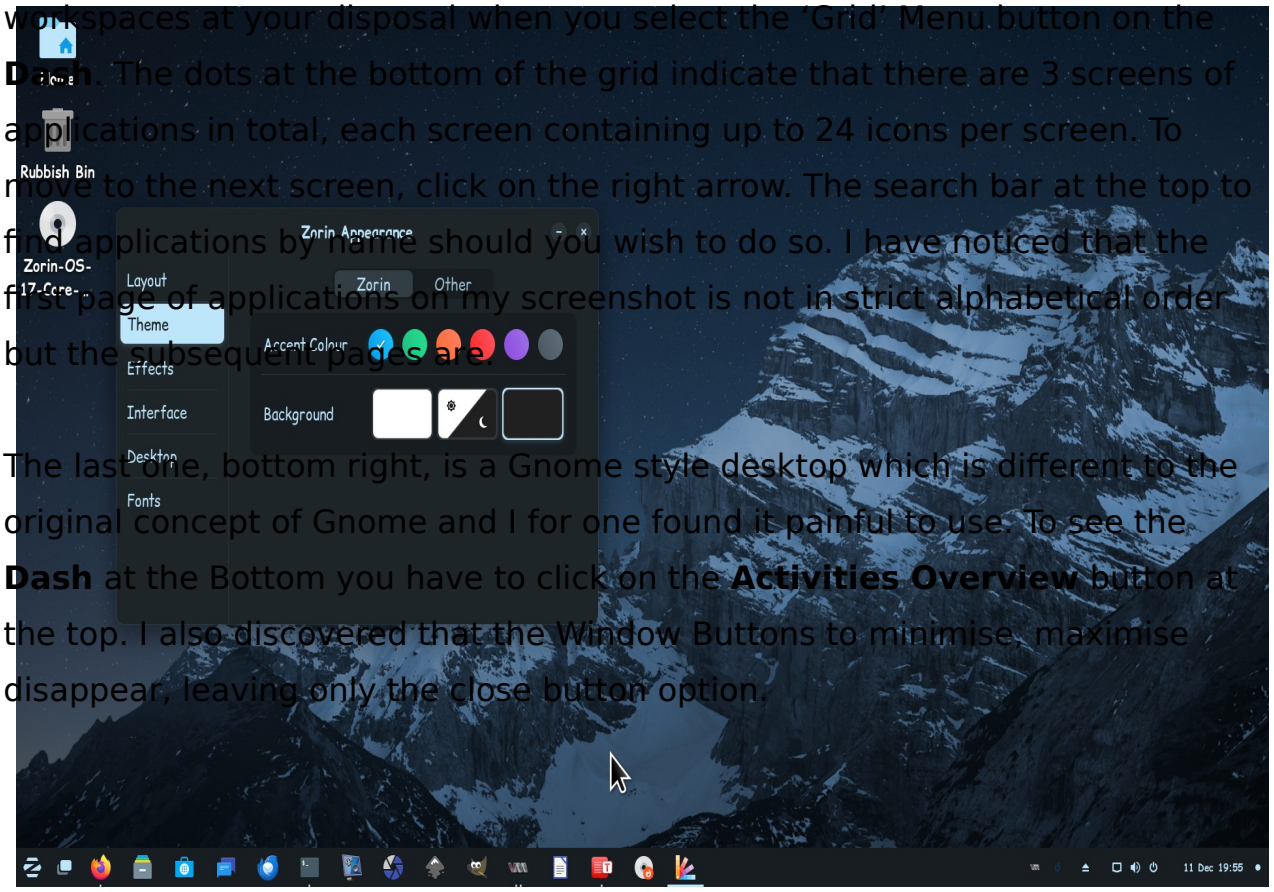
The bottom left style is aimed at Tablets and touch screens and is similar to Pantheon as used in another distribution.



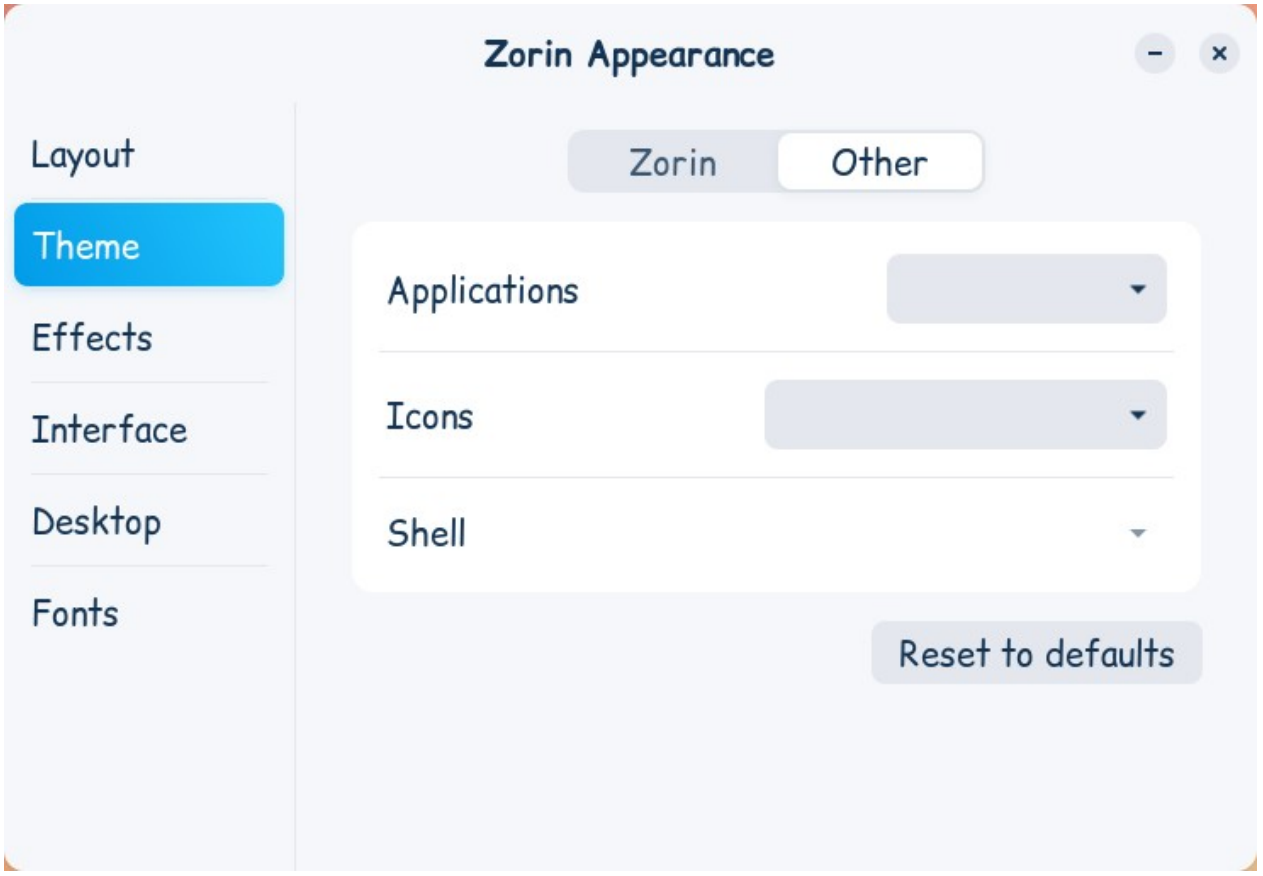


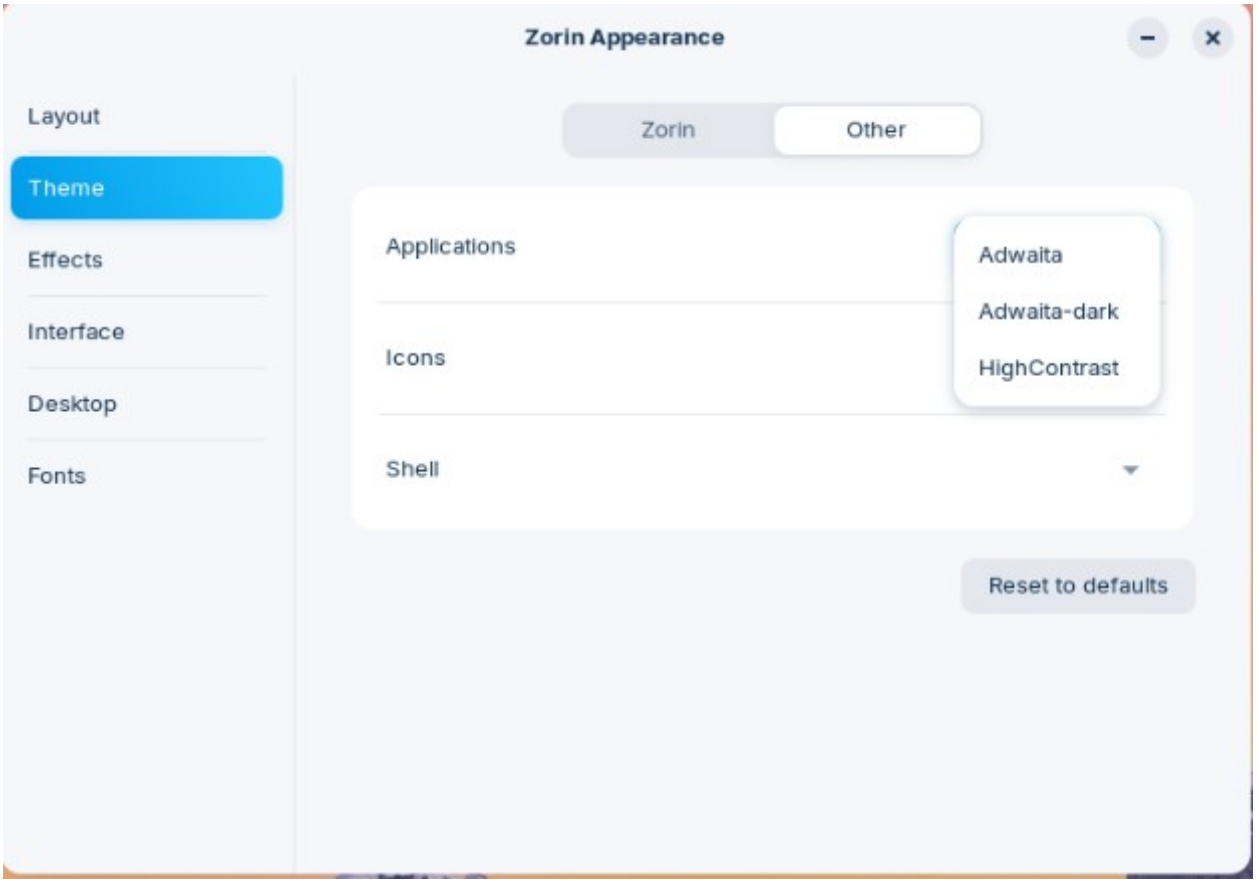

Home
Rubbish Bin
Zorin-OS-17-Core-...
Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Accent Colour
Background
11 Dec 19:54

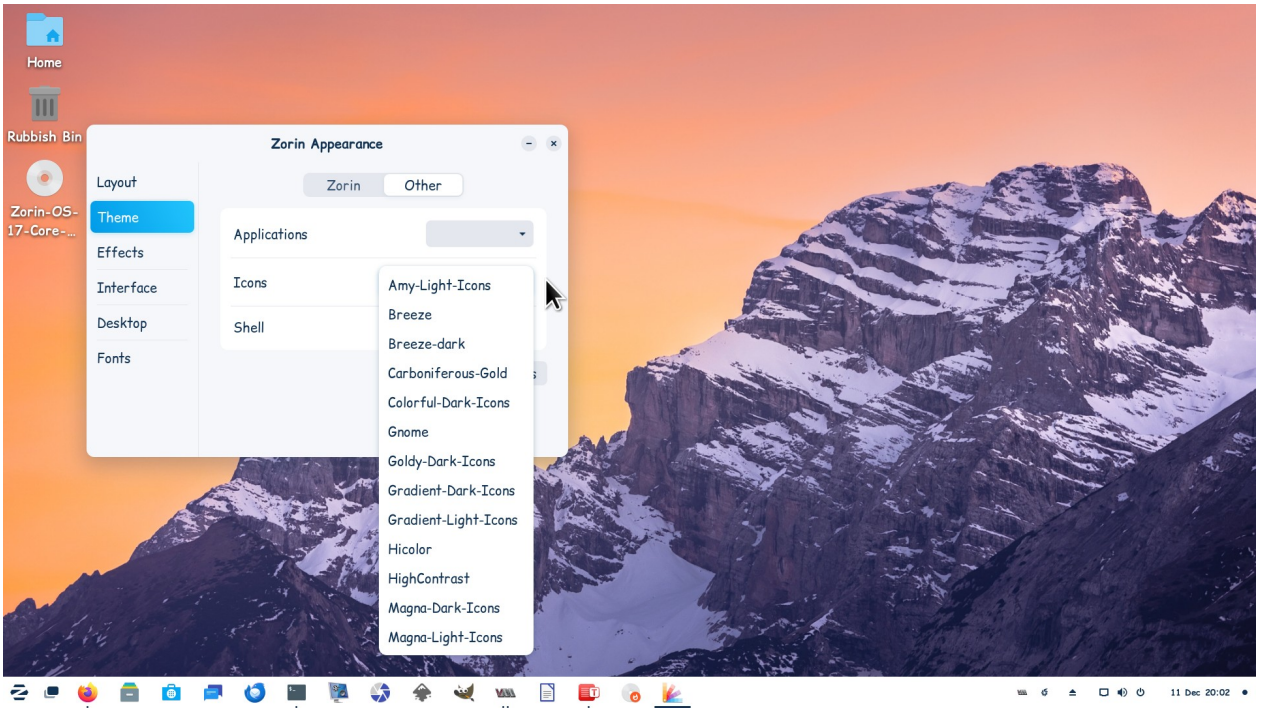
The mini screens at the top indicate you have potentially 12 different workspaces at your disposal when you select the 'Grid' Menu button on the **Dash**. The dots at the bottom of the grid indicate that there are 3 screens of applications in total, each screen containing up to 24 icons per screen. To move to the next screen, click on the right arrow. The search bar at the top to find applications by name should you wish to do so. I have noticed that the first page of applications on my screenshot is not in strict alphabetical order but the subsequent pages are.



The last one, bottom right, is a Gnome style desktop which is different to the original concept of Gnome and I for one found it painful to use. To see the **Dash** at the Bottom you have to click on the **Activities Overview** button at the top. I also discovered that the Window Buttons to minimise, maximise disappear, leaving only the close button option.


Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
Shell
Reset to defaults

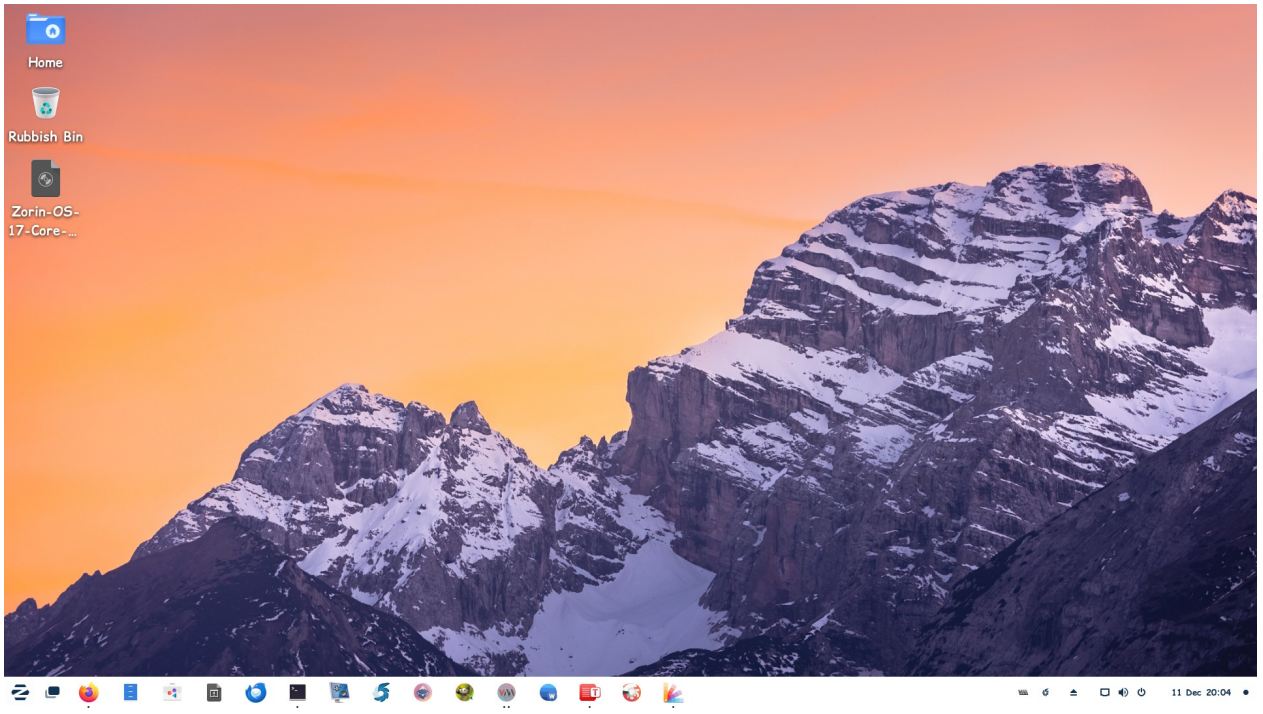

Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
Shell
Adwaita
Adwaita-dark
HighContrast
Reset to defaults


Home
Rubbish Bin
Zorin-OS-17-Core-...
Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
Shell
Amy-Light-Icons
Breeze
Breeze-dark
Carboniferous-Gold
Colorful-Dark-Icons
Gnome
Goldy-Dark-Icons
Gradient-Dark-Icons
Gradient-Light-Icons
Hicolor
HighContrast
Magna-Dark-Icons
Magna-Light-Icons
11 Dec 20:02

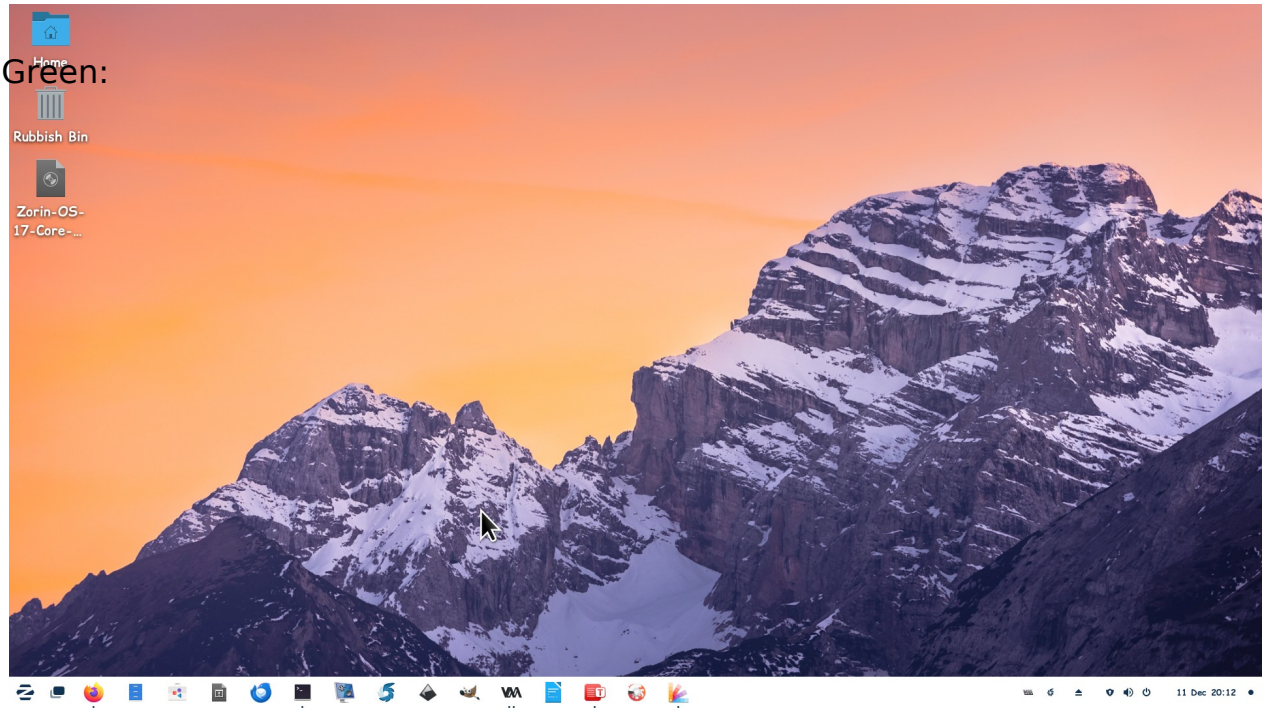
Theme

This option shows the different colour schemes available for Icons and Windows. There are two tabs, **Zorin** and **Other.**

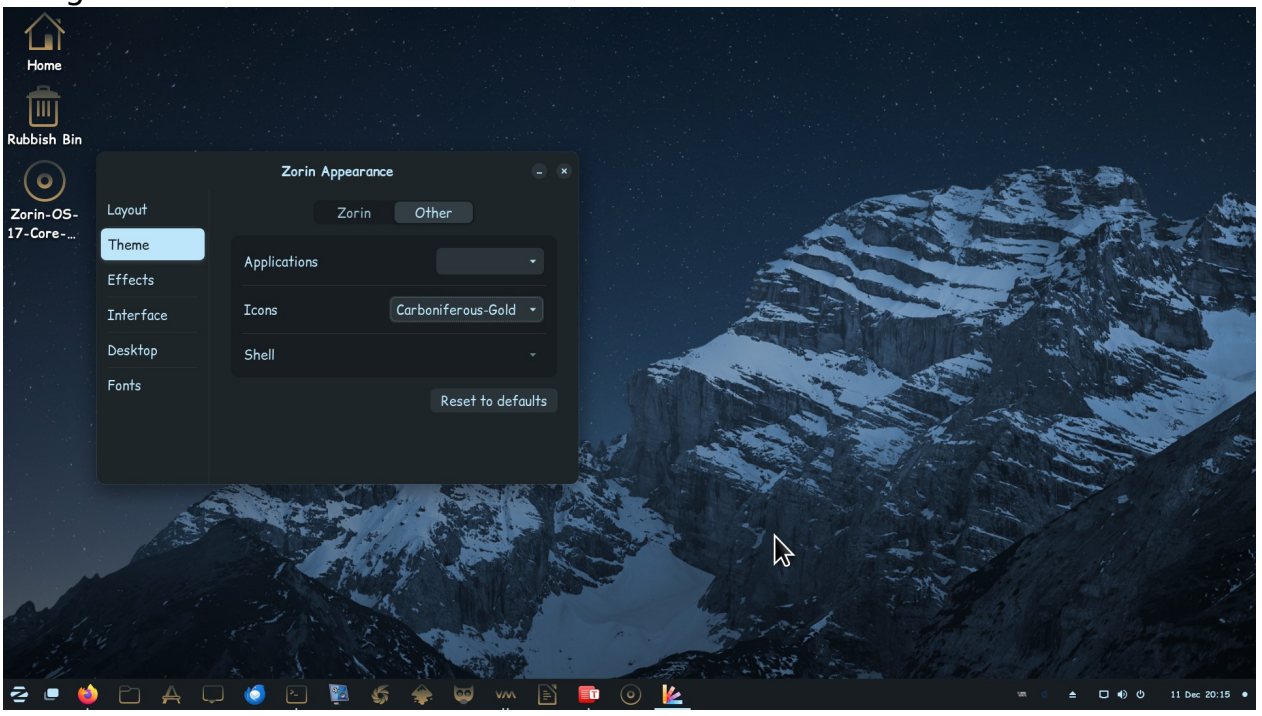
The Default Zorin Accent Colour is Blue:



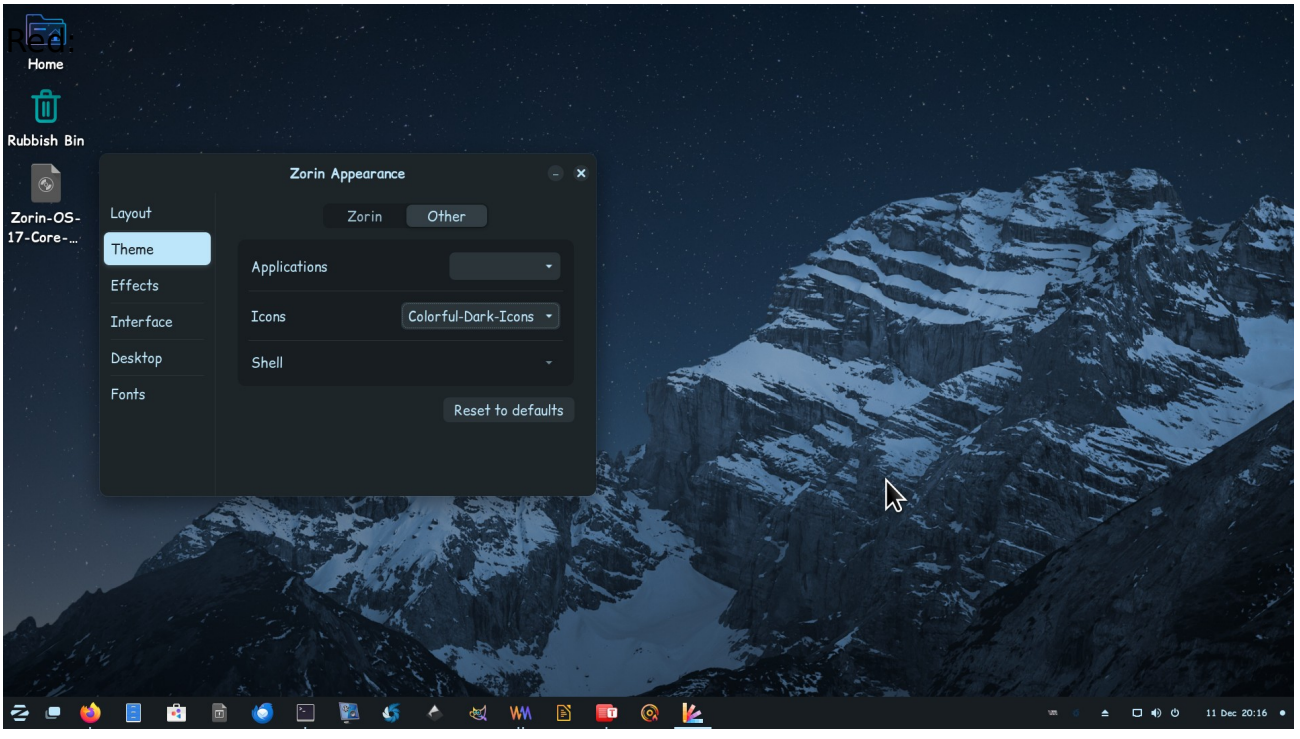
Green:



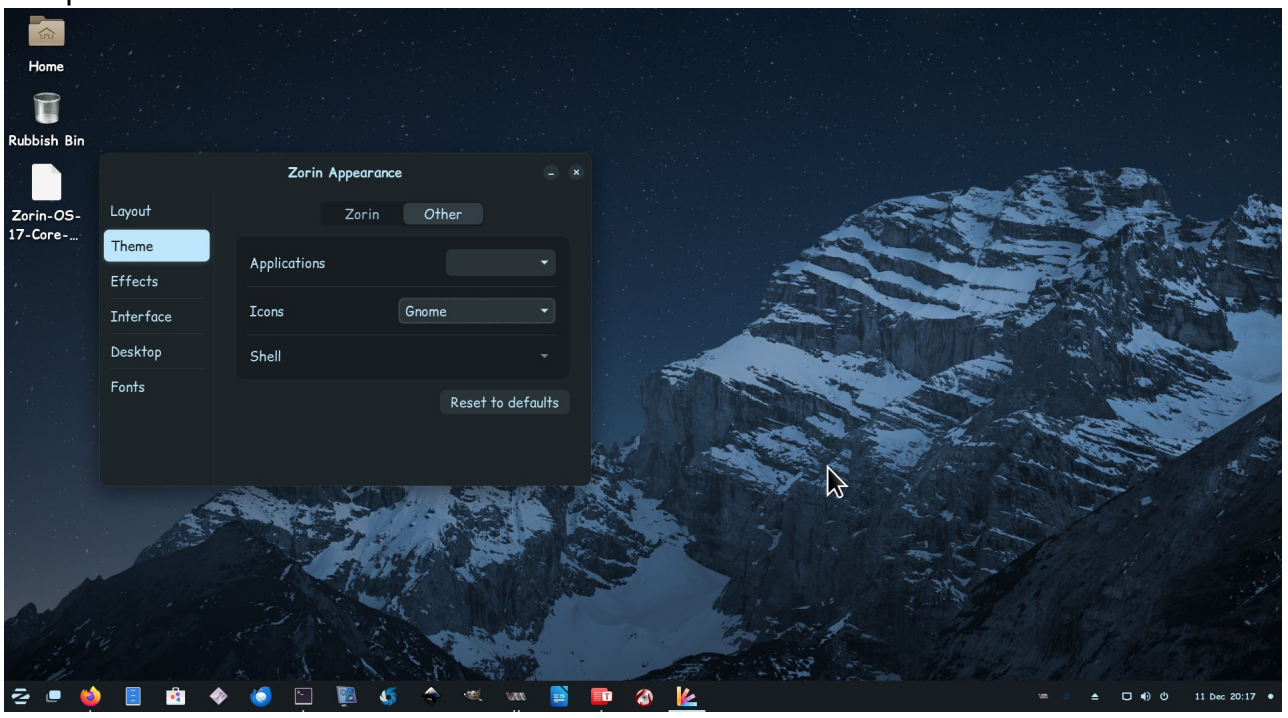
Orange:


Home
Rubbish Bin
Zorin-OS-17-Core-...
Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
Carboniferous-Gold
Shell
Reset to defaults
11 Dec 20:15

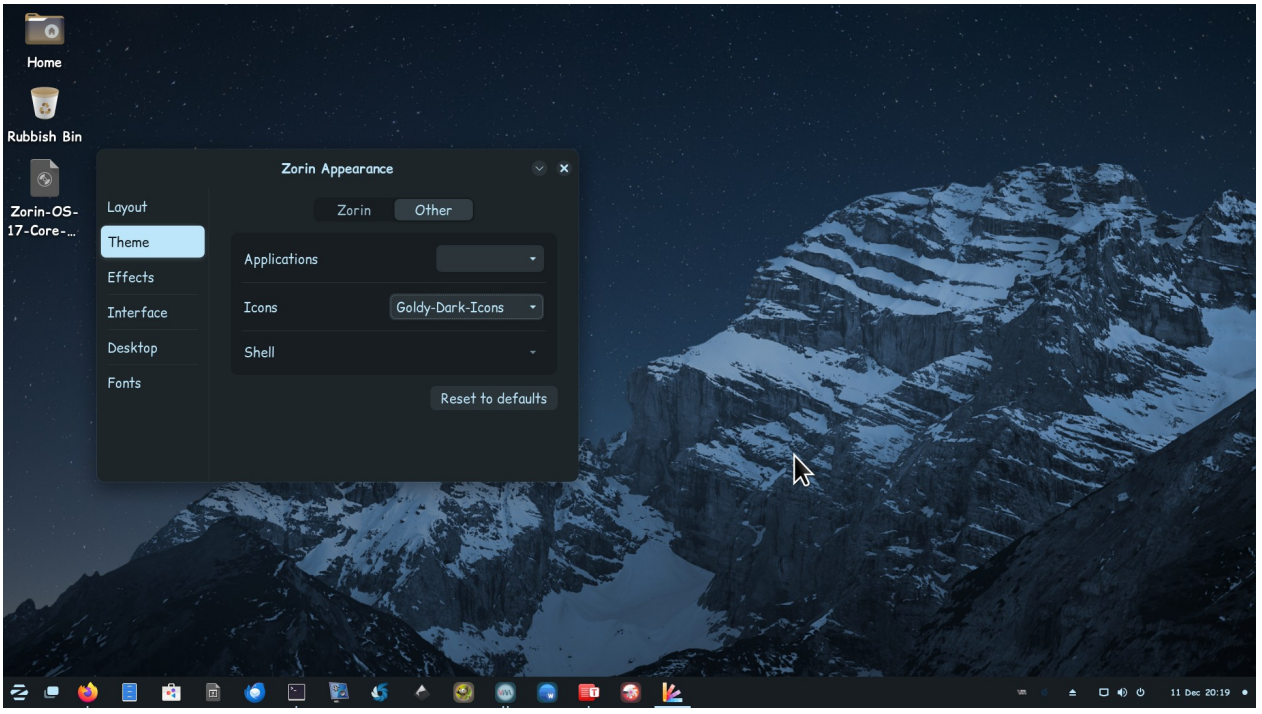
Red:


Home
Rubbish Bin
Zorin-OS-17-Core-...
Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
Colorful-Dark-Icons
Shell
Reset to defaults
11 Dec 20:16

Purple:


Home
Rubbish Bin
Zorin-OS-17-Core-...
Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
Gnome
Shell
Reset to defaults
11 Dec 20:17

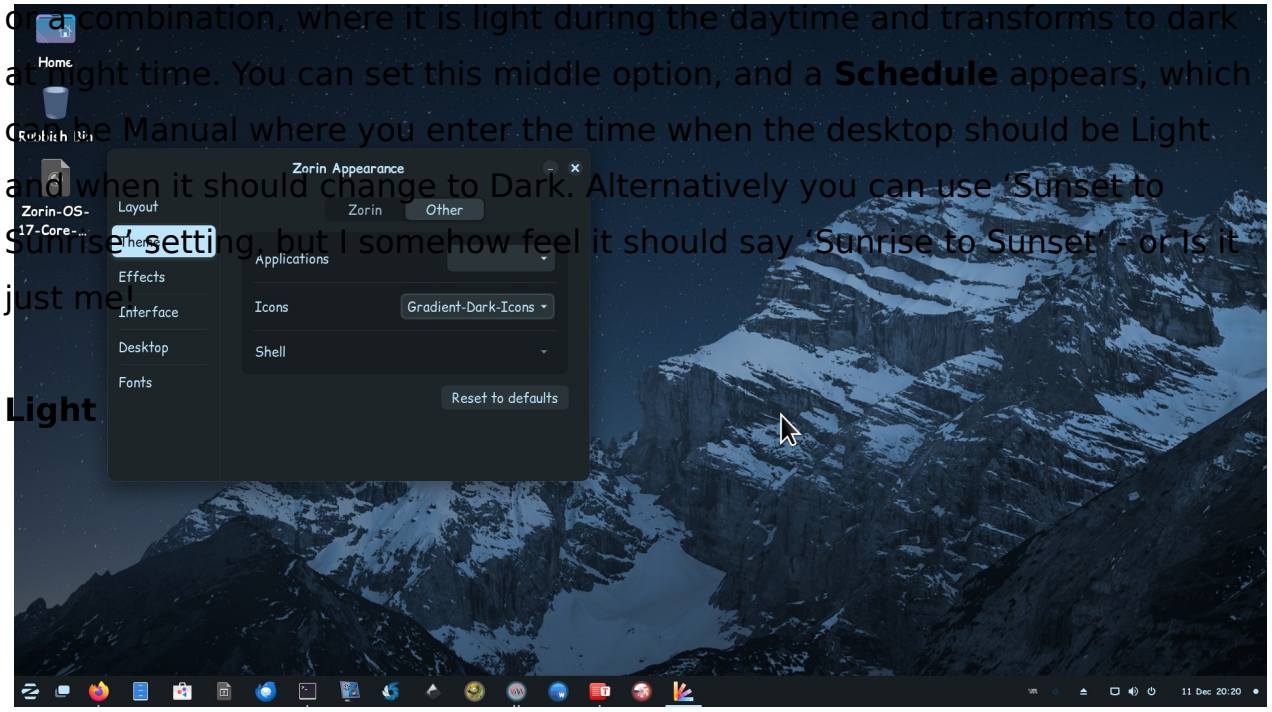
Grey:

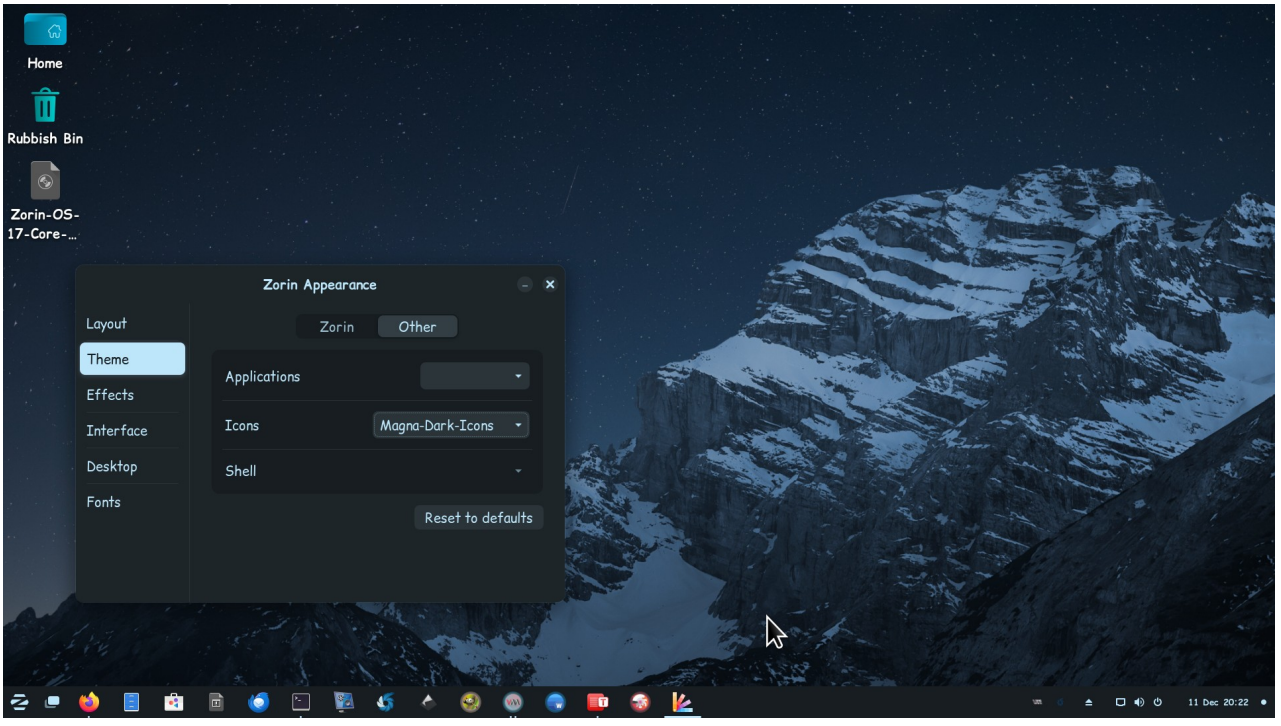

Home
Rubbish Bin
Zorin-OS-17-Core-...
Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
Goldy-Dark-Icons
Shell
Reset to defaults
11 Dec 20:19

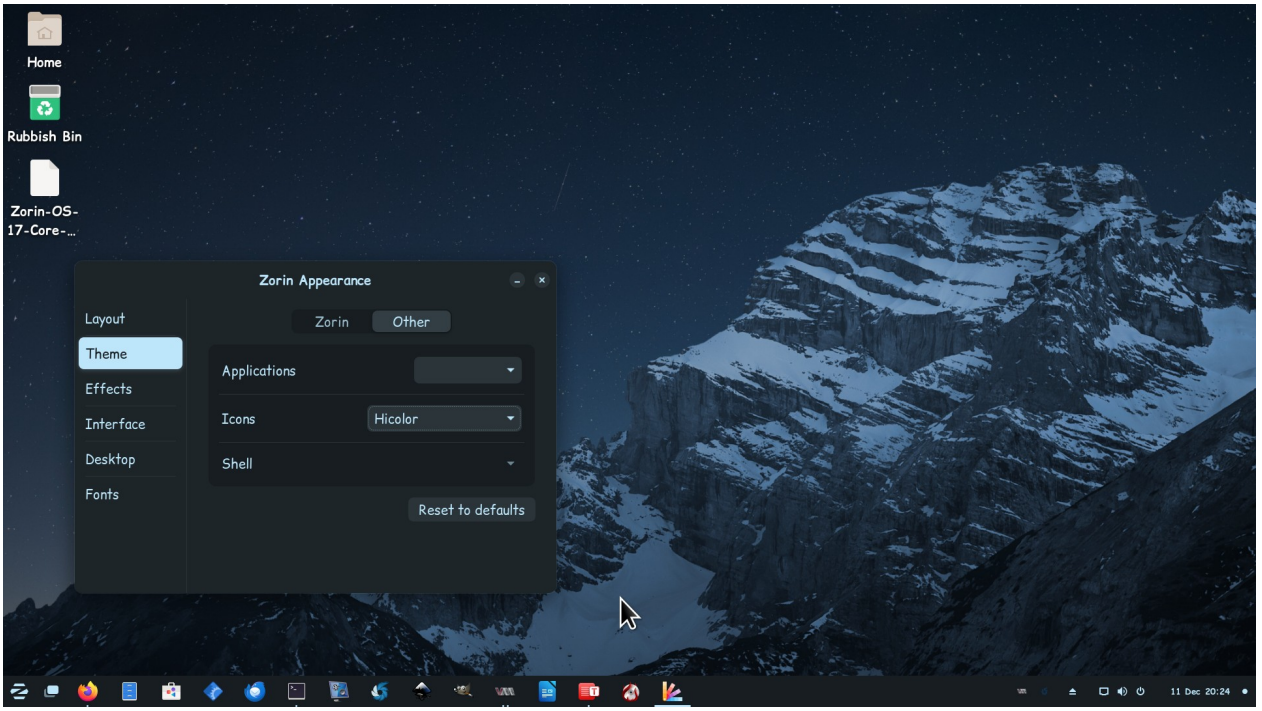
Background

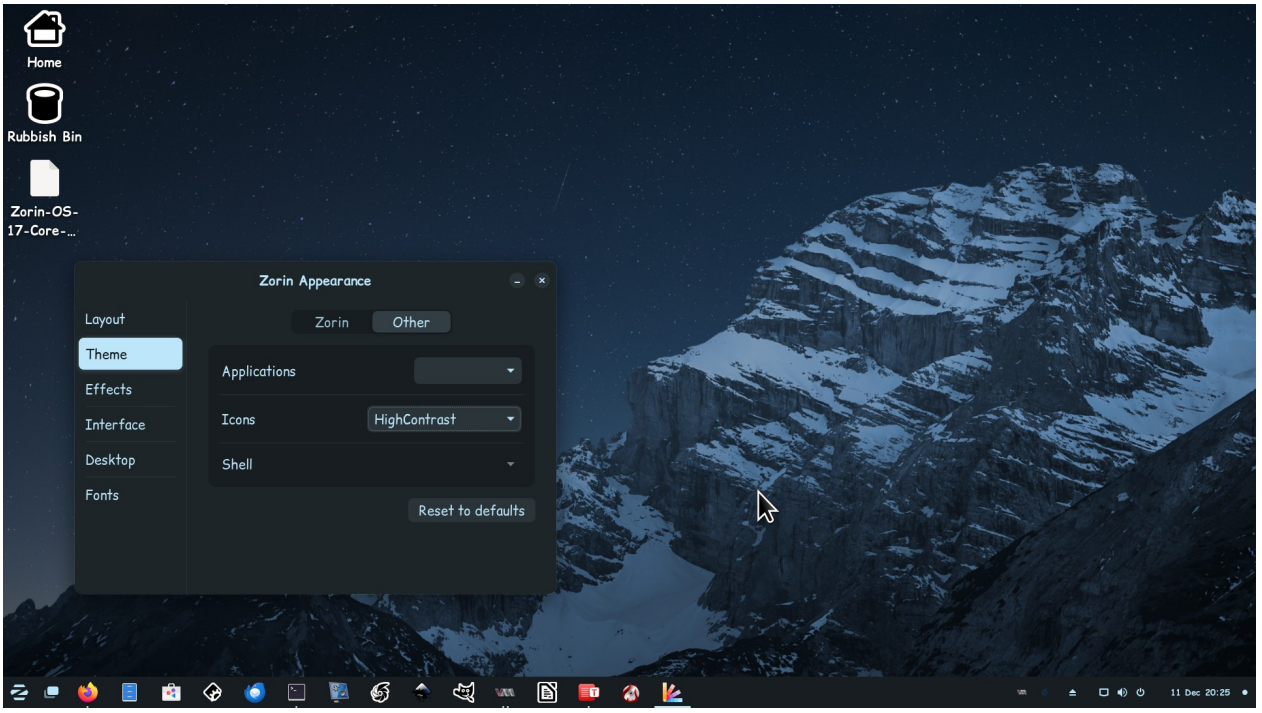
This setting gives you the option to have a light Background, dark Background, or a combination, where it is light during the daytime and transforms to dark at night time. You can set this middle option, and a **Schedule** appears, which can be Manual where you enter the time when the desktop should be Light and when it should change to Dark. Alternatively you can use 'Sunset to Sunrise' setting, but I somehow feel it should say 'Sunrise to Sunset' - or is it just me!

Light

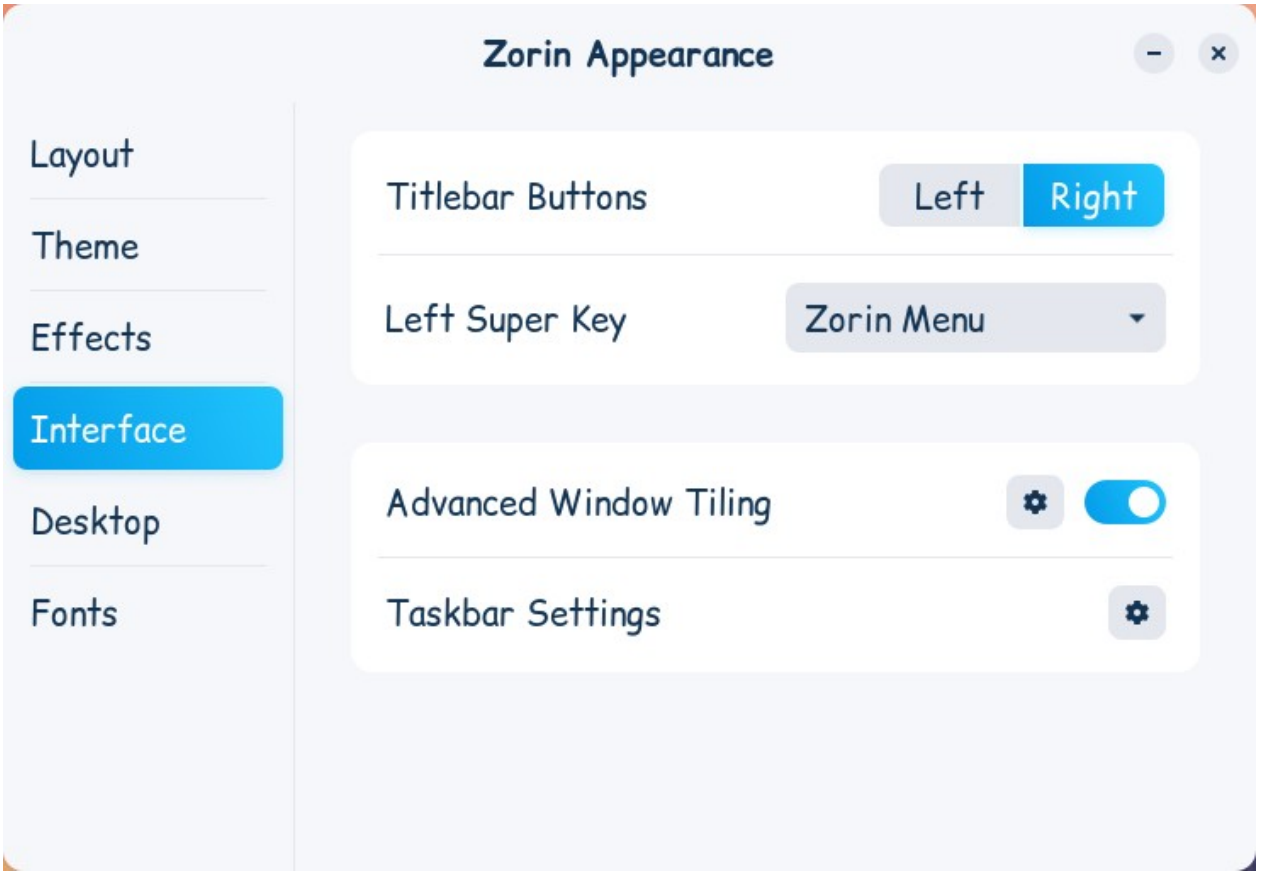





Home
Rubbish Bin
Zorin-OS-17-Core-...
Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
Hicolor
Shell
Reset to defaults
11 Dec 20:24


Home
Rubbish Bin
Zorin-OS-17-Core-...
Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Zorin
Other
Applications
Icons
HighContrast
Shell
Reset to defaults
11 Dec 20:25

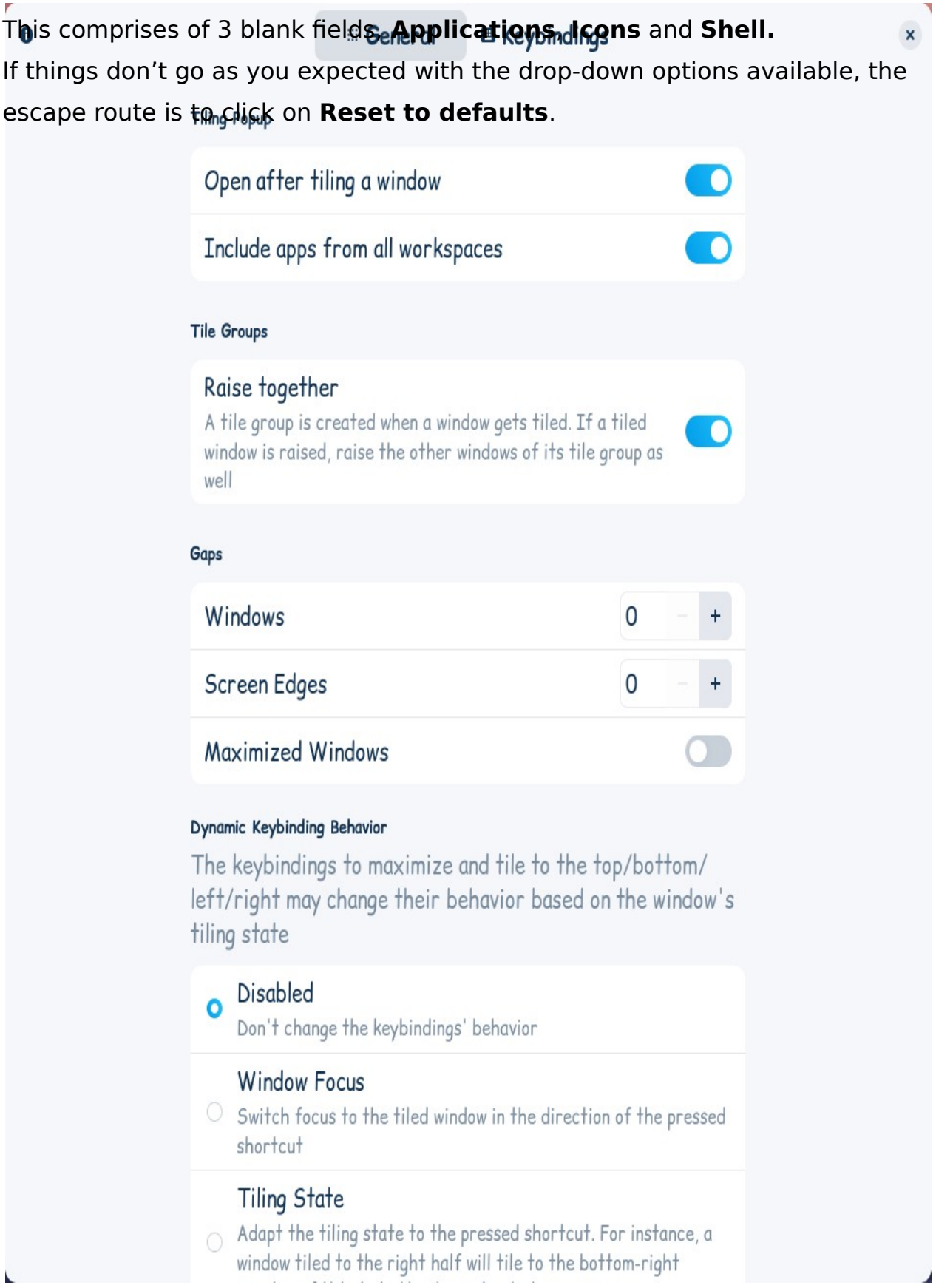
Dark


Zorin Appearance
Layout
Theme
Effects
Interface
Desktop
Fonts
Titlebar Buttons
Left
Right
Left Super Key
Zorin Menu
Advanced Window Tiling
Taskbar Settings

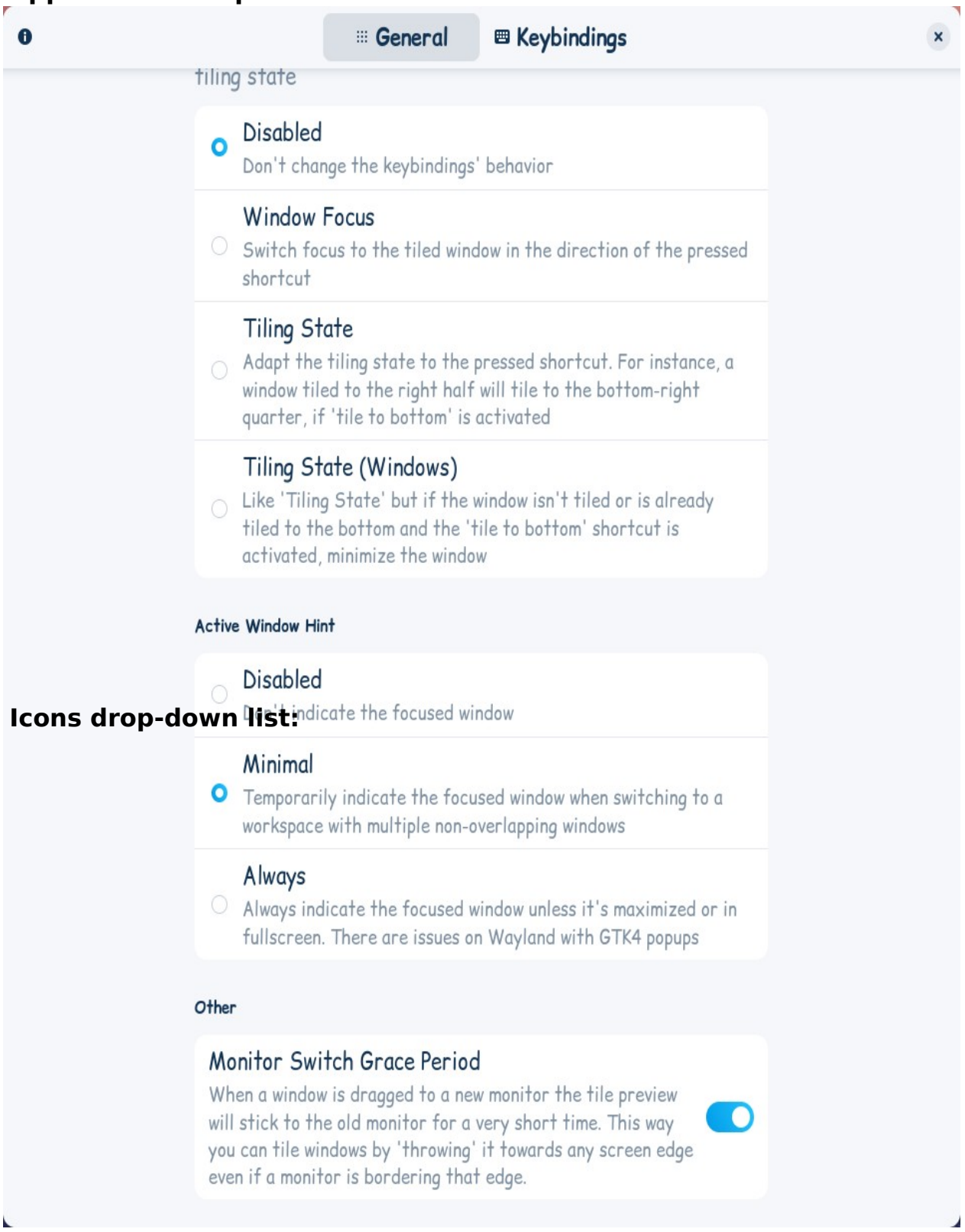
Other

This comprises of 3 blank fields, **Applications, Icons** and **Shell.**

If things don’t go as you expected with the drop-down options available, the escape route is to click on **Reset to defaults**.

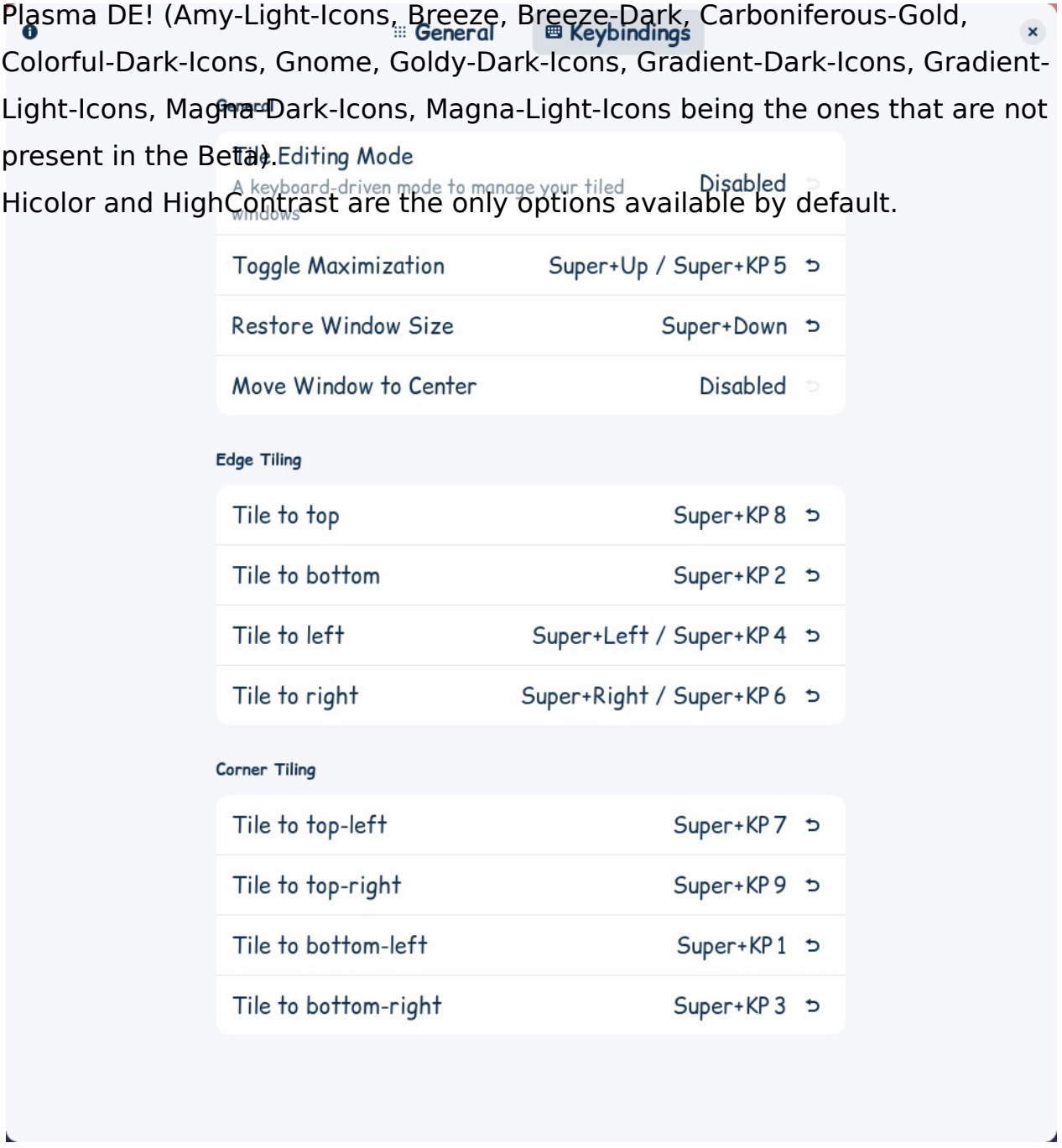

General
Keybindings
Tiling Popup
Open after tiling a window
Include apps from all workspaces
Tile Groups
Raise together
A tile group is created when a window gets tiled. If a tiled window is raised, raise the other windows of its tile group as well
Gaps
Windows
0
Screen Edges
0
Maximized Windows
Dynamic Keybinding Behavior
The keybindings to maximize and tile to the top/bottom/left/right may change their behavior based on the window's tiling state
Disabled
Don't change the keybindings' behavior
Window Focus
Switch focus to the tiled window in the direction of the pressed shortcut
Tiling State
Adapt the tiling state to the pressed shortcut. For instance, a window tiled to the right half will tile to the bottom-right

Applications drop-down list:

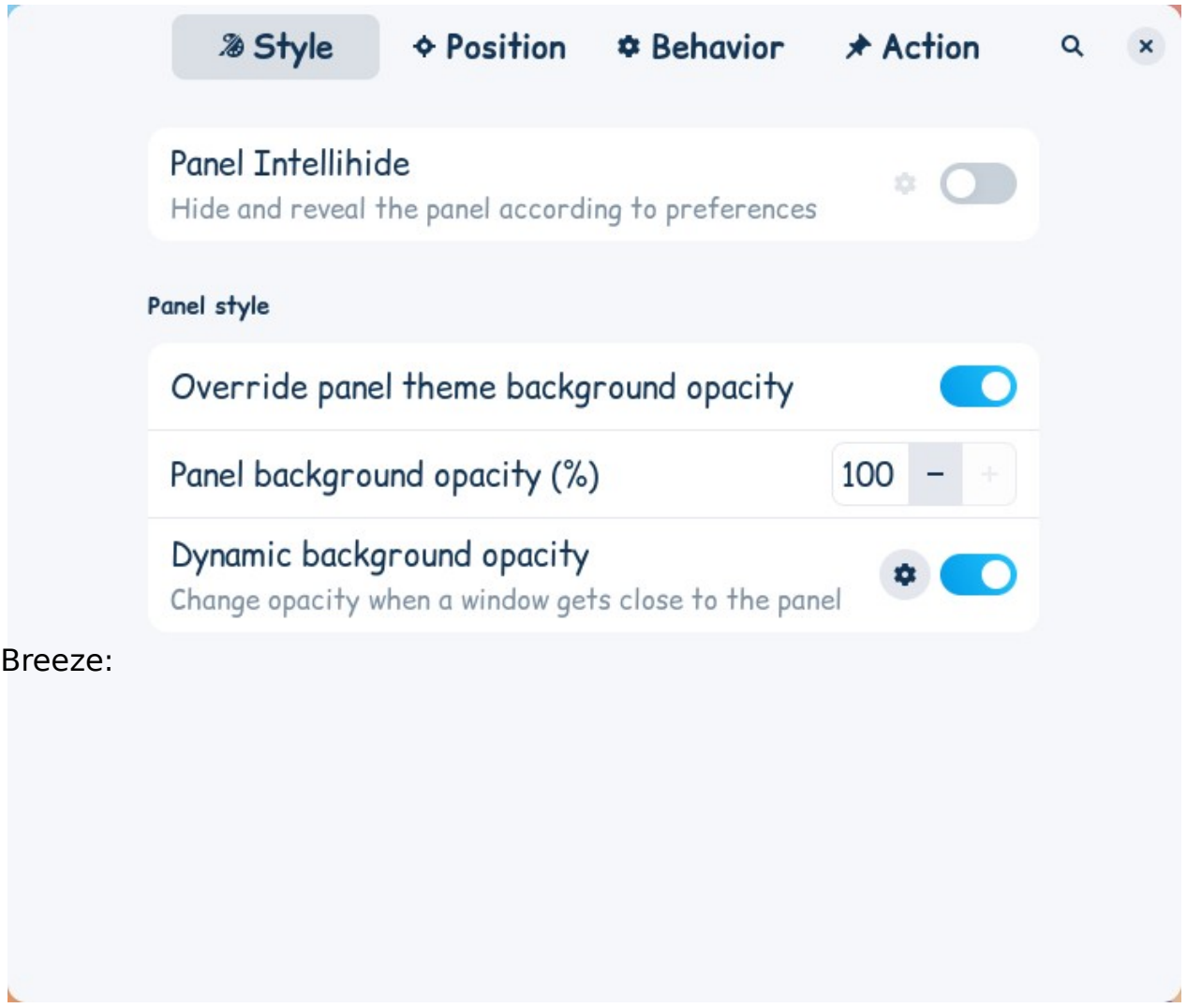

General
Keybindings
tiling state
Disabled
Don't change the keybindings' behavior
Window Focus
Switch focus to the tiled window in the direction of the pressed shortcut
Tiling State
Adapt the tiling state to the pressed shortcut. For instance, a window tiled to the right half will tile to the bottom-right quarter, if 'tile to bottom' is activated
Tiling State (Windows)
Like 'Tiling State' but if the window isn't tiled or is already tiled to the bottom and the 'tile to bottom' shortcut is activated, minimize the window
Active Window Hint
Disabled
Minimal
Temporarily indicate the focused window when switching to a workspace with multiple non-overlapping windows
Always
Always indicate the focused window unless it's maximized or in fullscreen. There are issues on Wayland with GTK4 popups
Other
Monitor Switch Grace Period
When a window is dragged to a new monitor the tile preview will stick to the old monitor for a very short time. This way you can tile windows by 'throwing' it towards any screen edge even if a monitor is bordering that edge.

Icons drop-down list:

Please be aware I have added some additional icons whilst playing around with Plasma DE! (Amy-Light-Icons, Breeze, Breeze-Dark, Carboniferous-Gold, Colorful-Dark-Icons, Gnome, Goldy-Dark-Icons, Gradient-Dark-Icons, Gradient-Light-Icons, Magna-Dark-Icons, Magna-Light-Icons being the ones that are not present in the Beta).
Hicolor and HighContrast are the only options available by default.



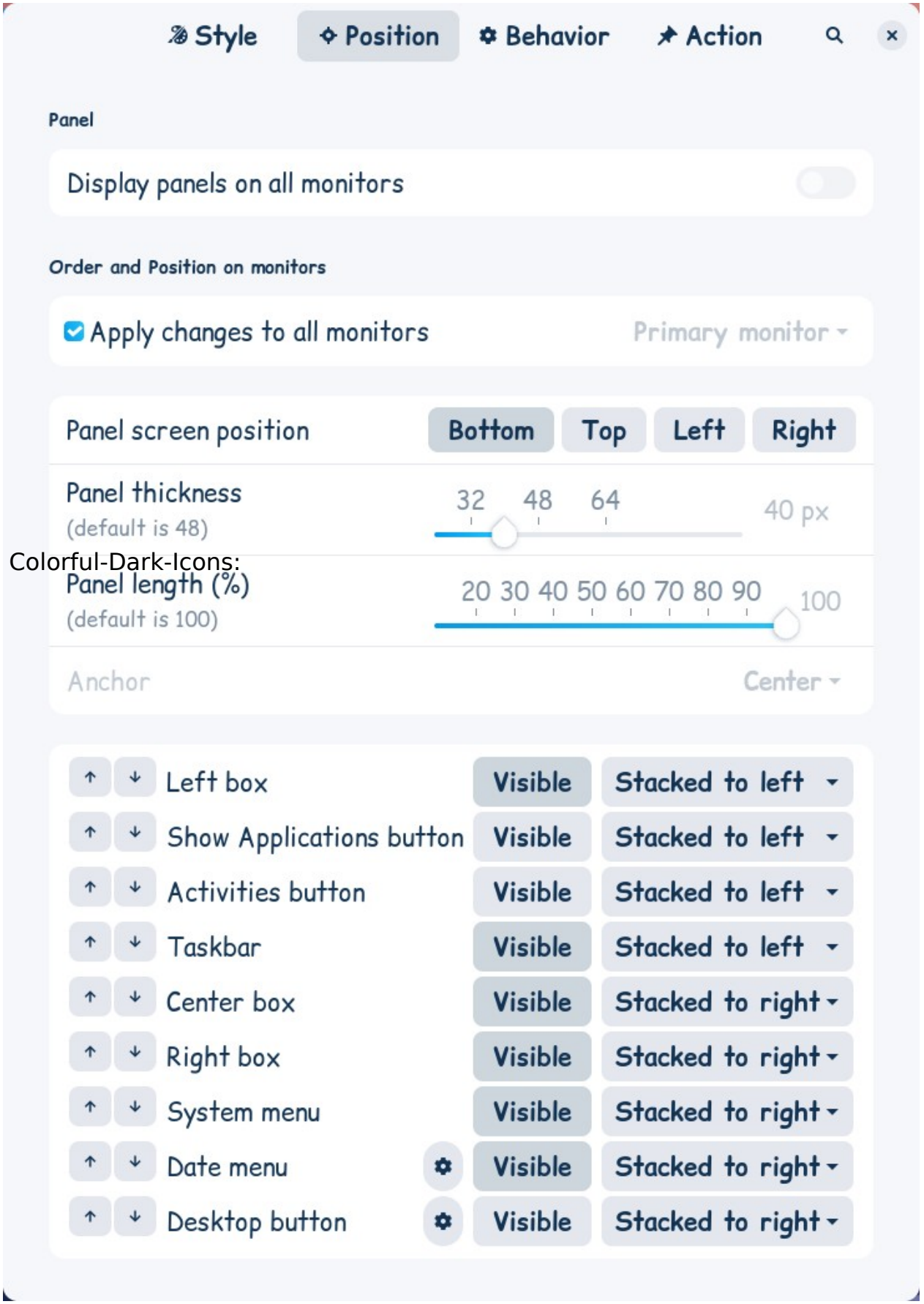
Amy-Light-Icons:



Breeze:

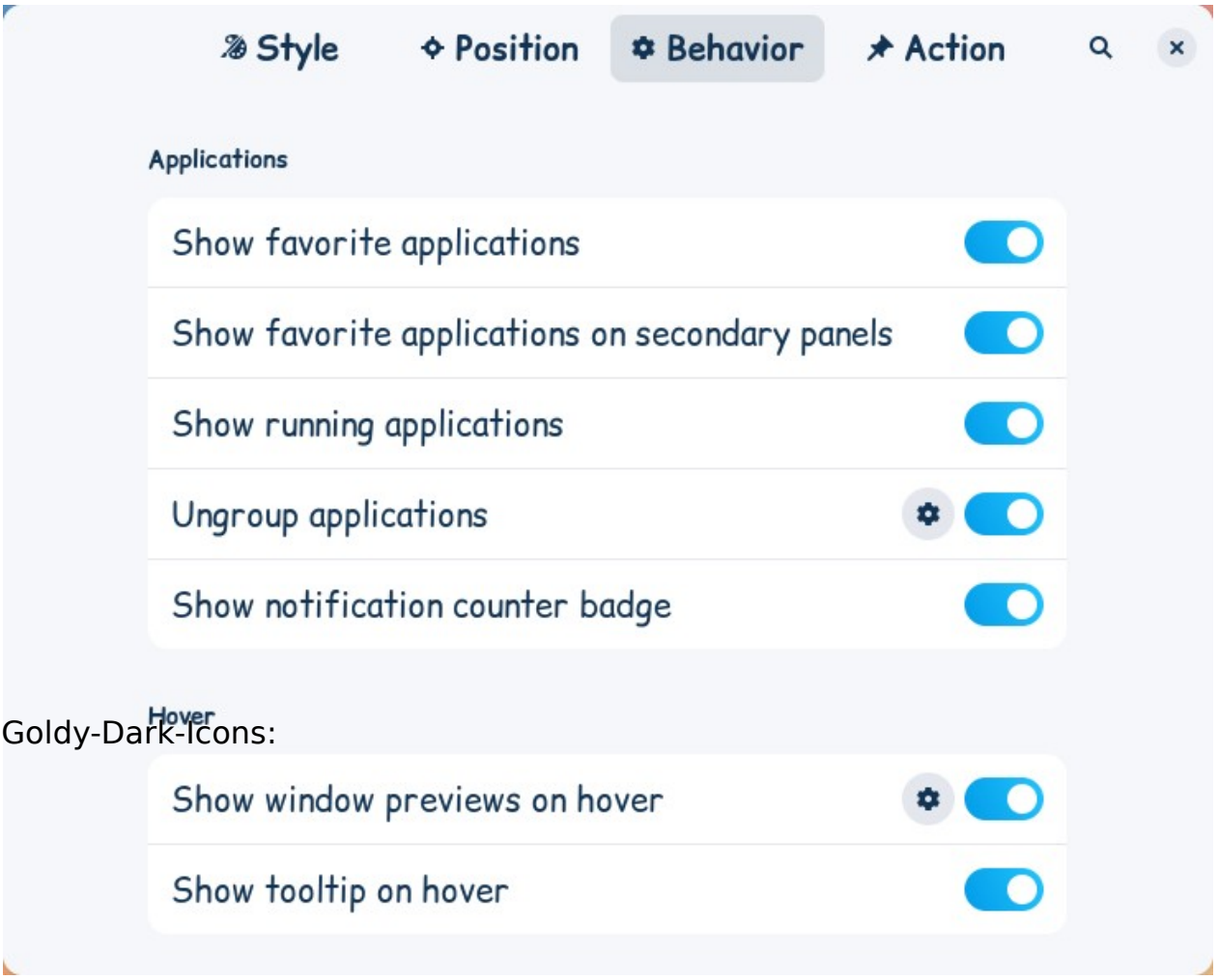
Breeze-dark (Not bothered to do a screenshot, the only change it made was the icon for virt-manager and changed it from black … to white!)

Carboniferous-Gold:



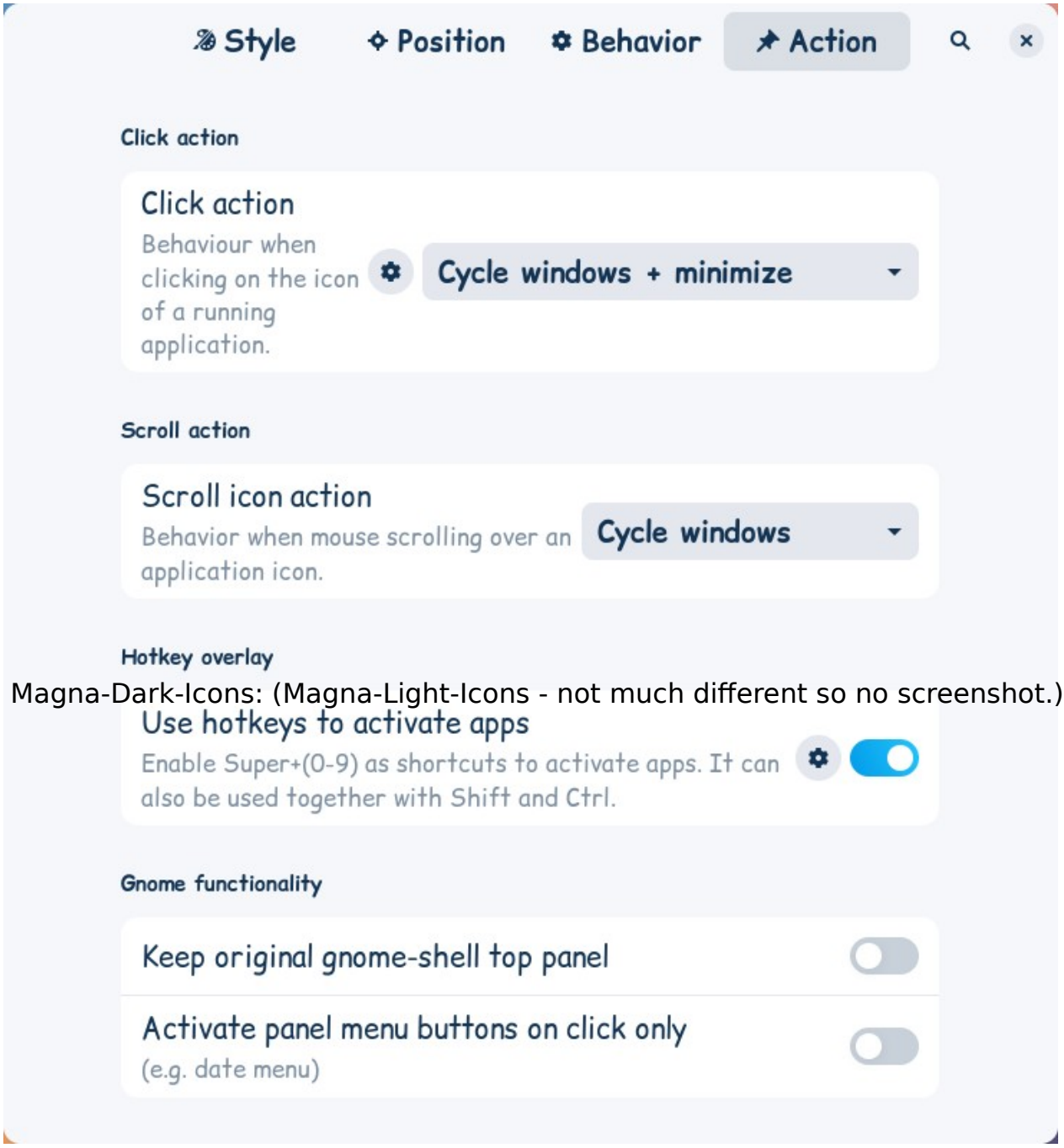
Colorful-Dark-Icons:

Gnome:



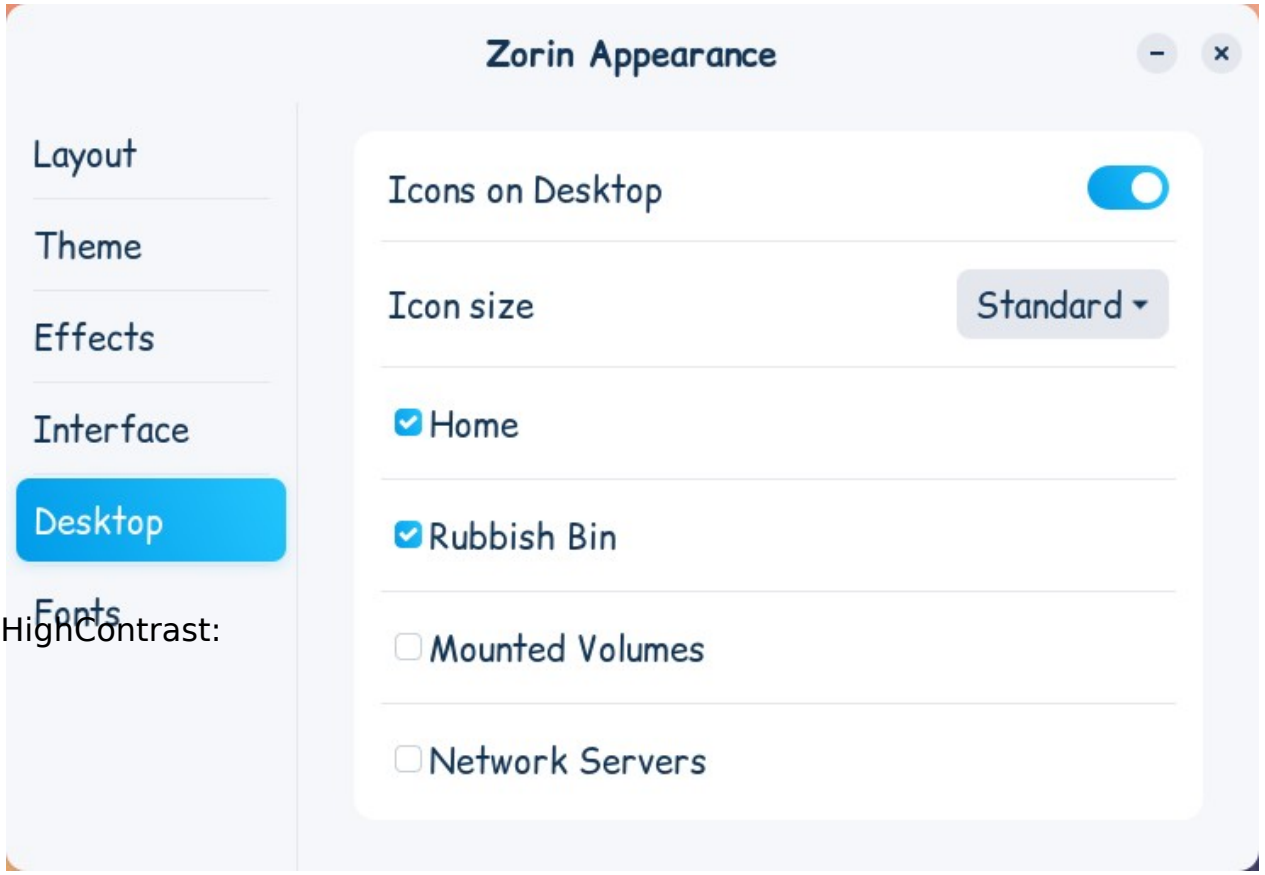
Goldy-Dark-Icons:

Gradient-Dark-Icons: (Gradient-Light-Icons not much different so no screenshot.)


Style
Position
Behavior
Action
Click action
Click action
Behaviour when clicking on the icon of a running application.
Cycle windows + minimize
Scroll action
Scroll icon action
Behavior when mouse scrolling over an application icon.
Cycle windows
Hotkey overlay
Use hotkeys to activate apps
Enable Super+(0-9) as shortcuts to activate apps. It can also be used together with Shift and Ctrl.
Gnome functionality
Keep original gnome-shell top panel
Activate panel menu buttons on click only
(e.g. date menu)

Magna-Dark-Icons: (Magna-Light-Icons - not much different so no screenshot.)

Hicolor:



HighContrast:

Effects - see video I created here:

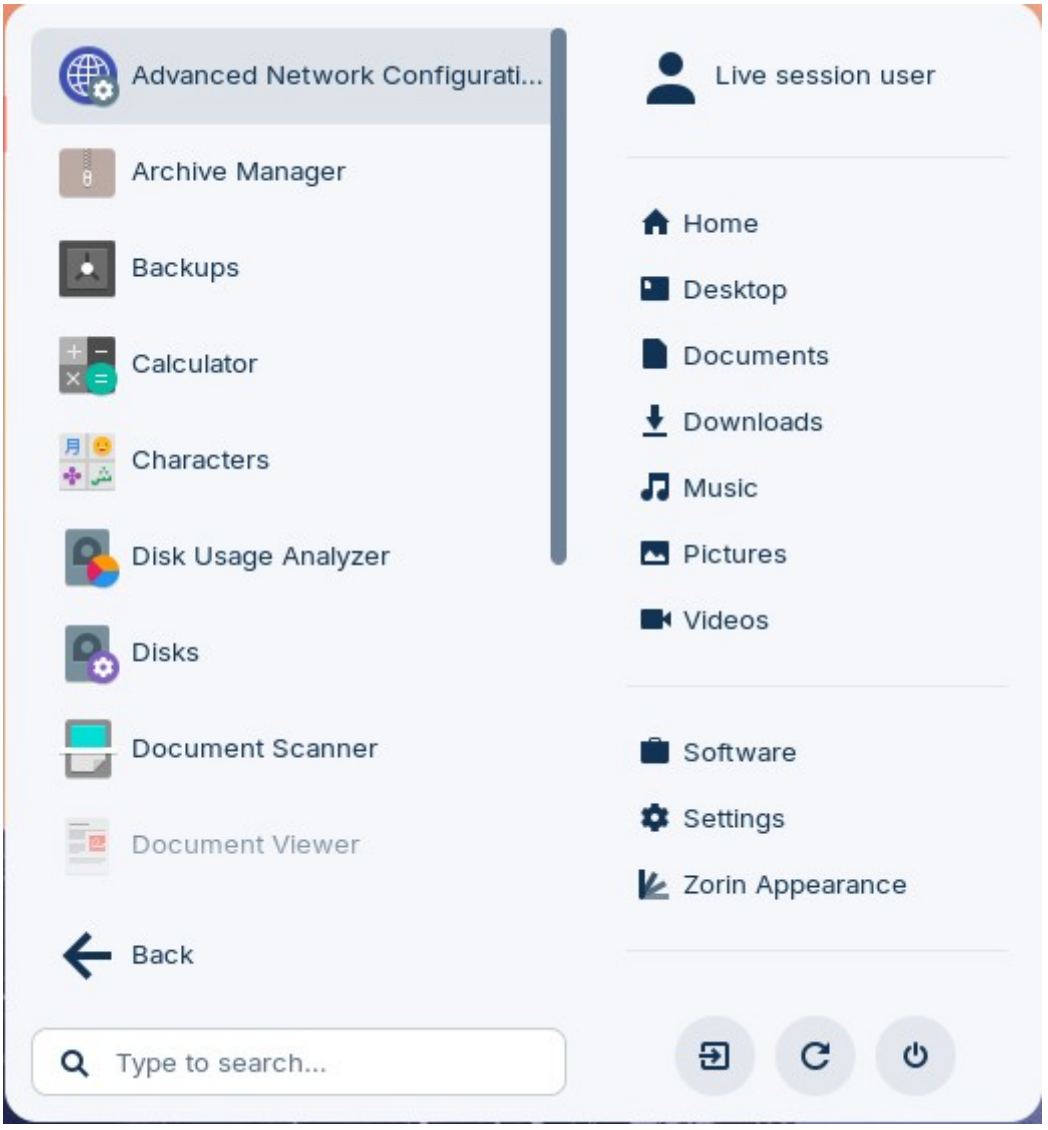
https://vimeo.com/893473421?share=copy

Interface

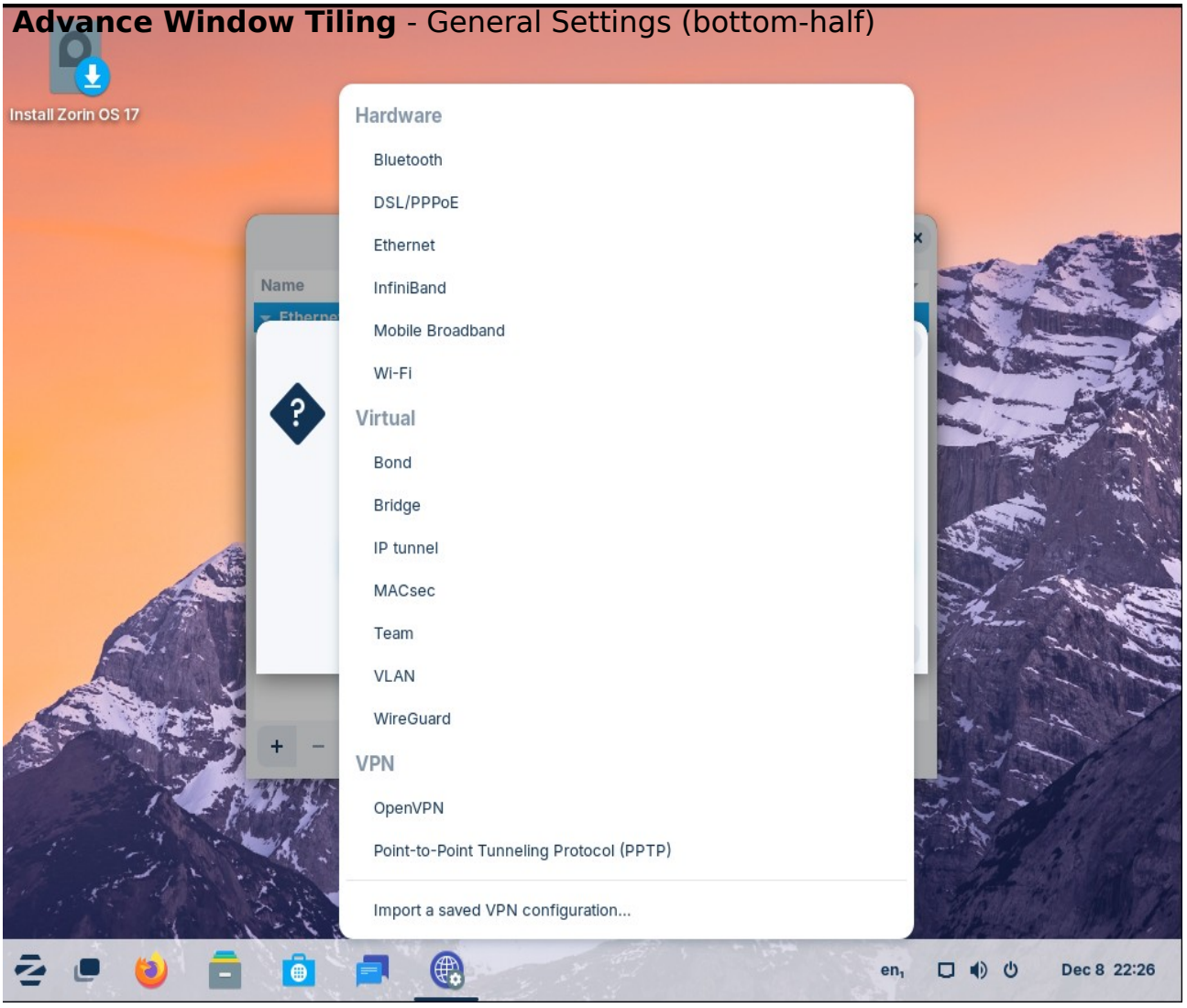
This is where you can decide on where the Titlebar Buttons are placed (minimise, maximise, close), what to designate the Left Super Key to do. The default is **Activities Overview**, but you can change this to **Zorin Menu** by using the drop down arrow to the right.

Advanced Window Tiling. Not quite sure how to describe what this does! Selecting the cog reveals the following interface (top-half) on the next page.

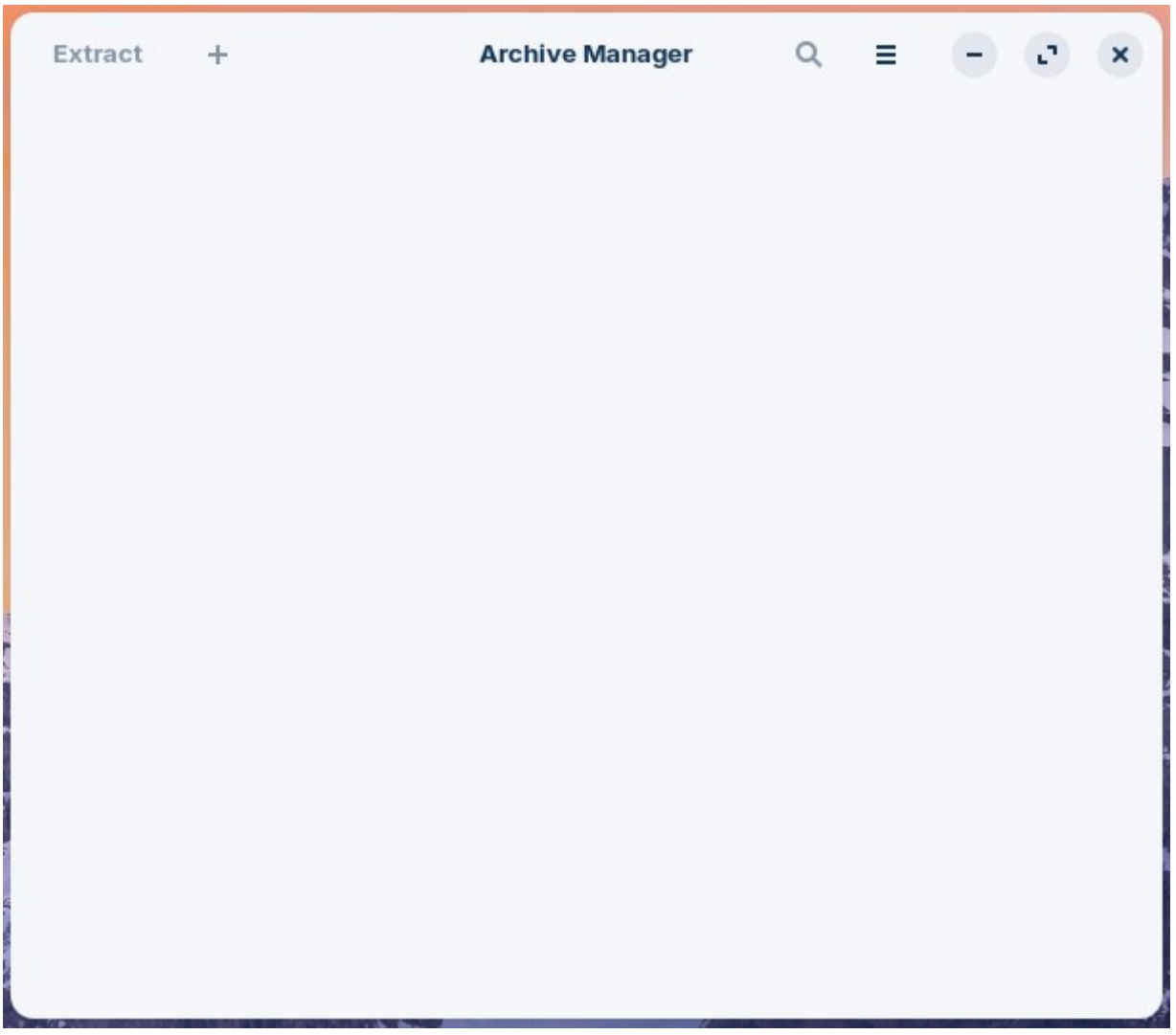
Advance Woindow Tiling - General Settings (top half)



Advance Window Tiling - General Settings (bottom-half)

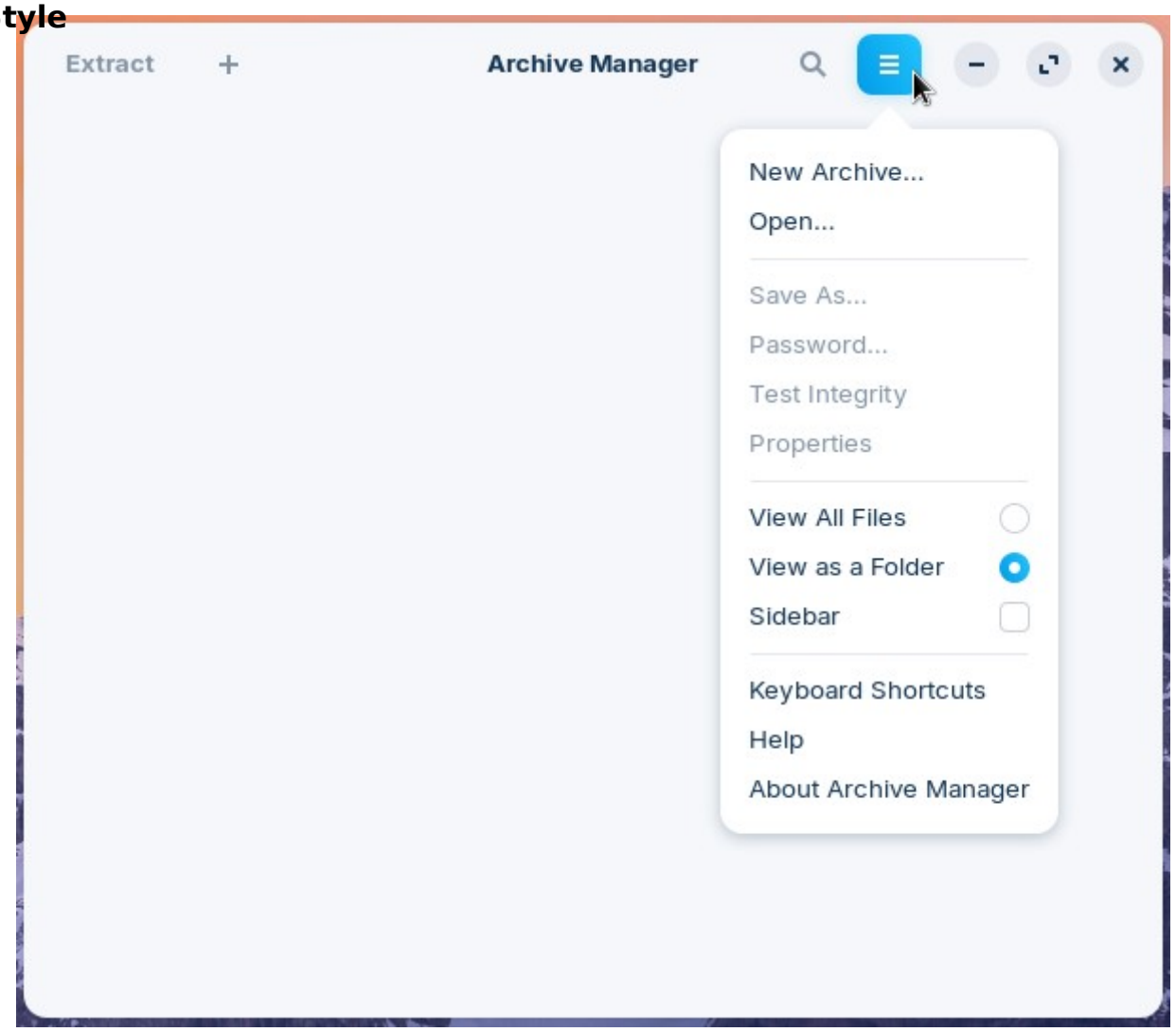


Advanced Window Tiling - Keybindings



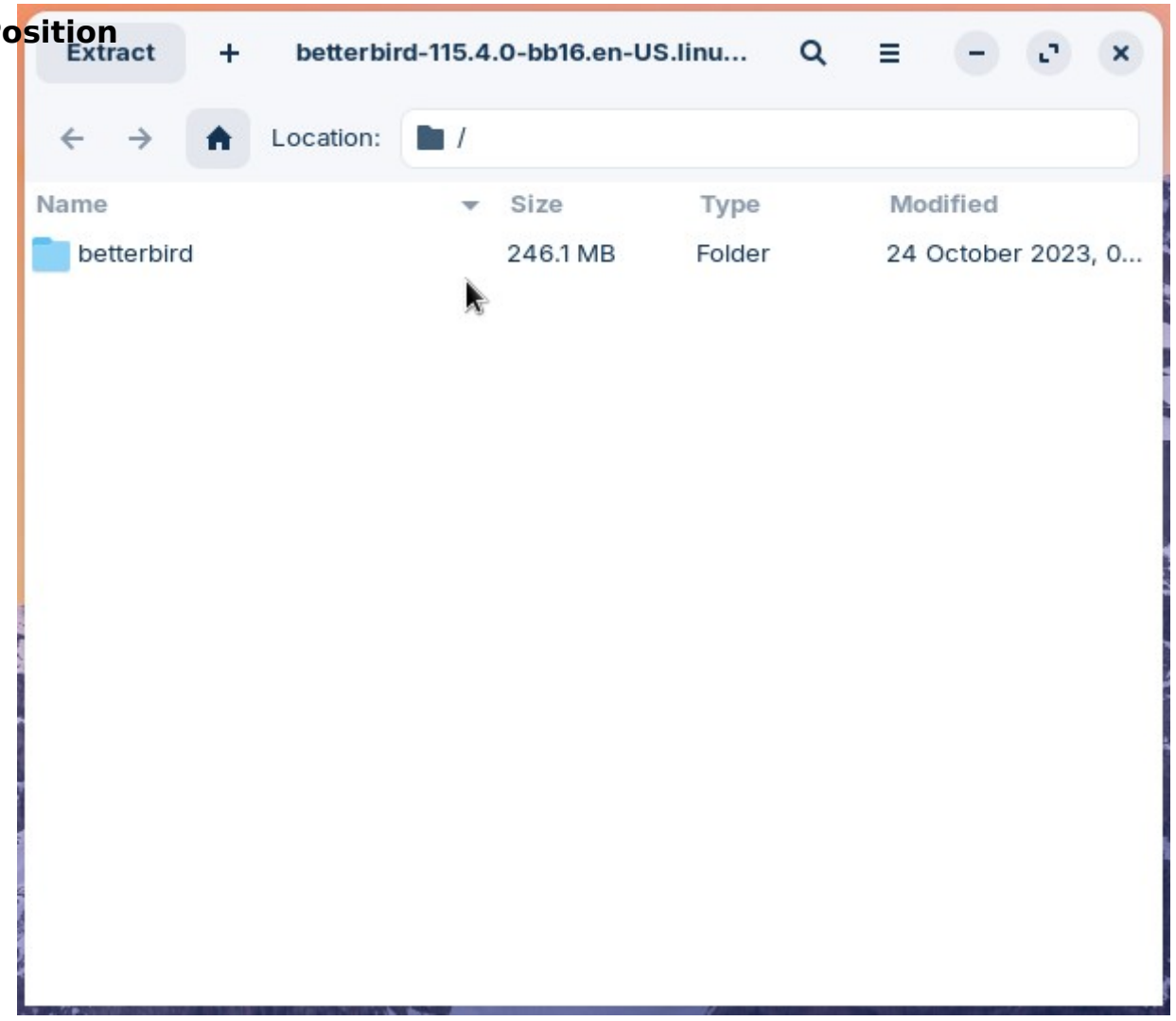
Taskbar Settings

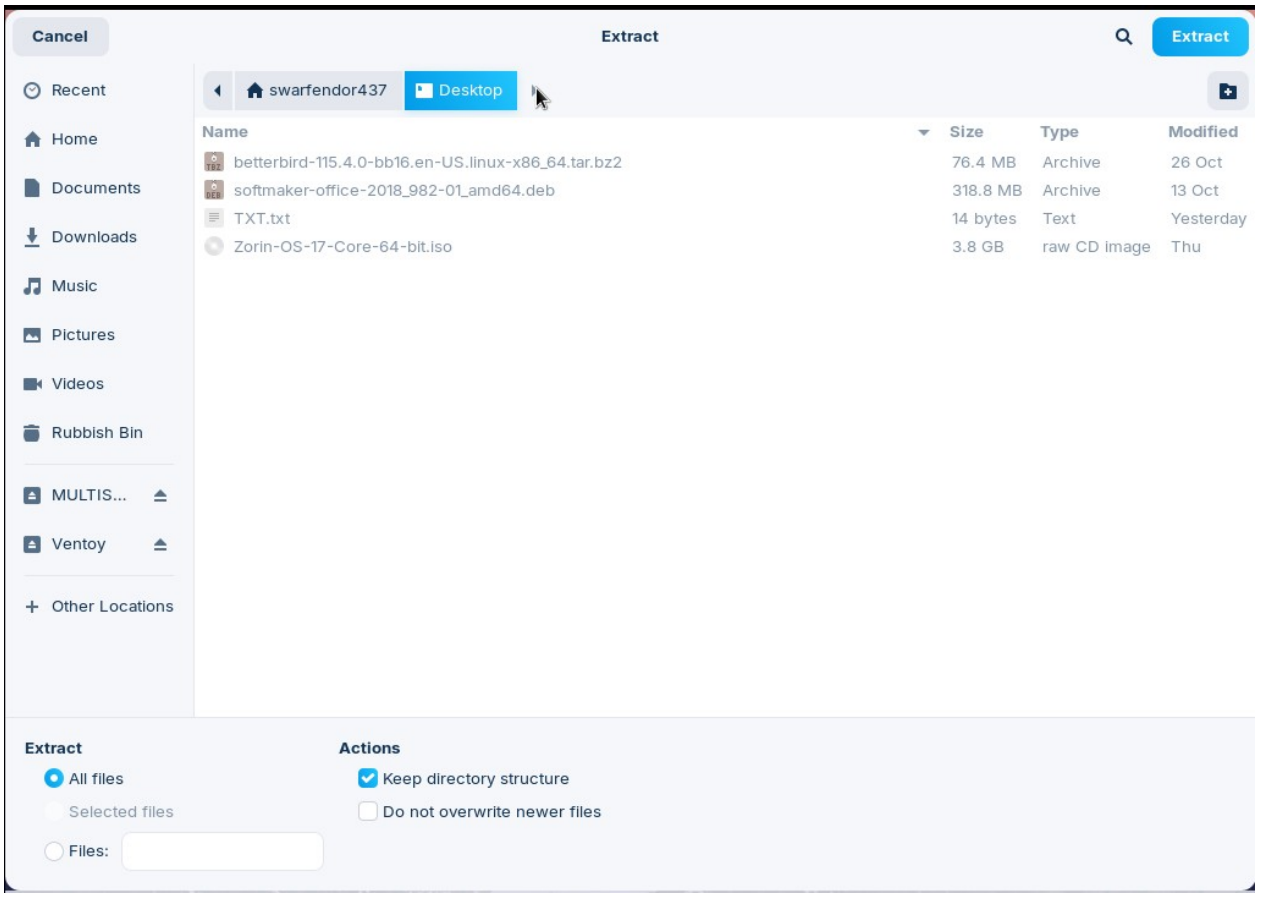
Style



Taskbar Settings

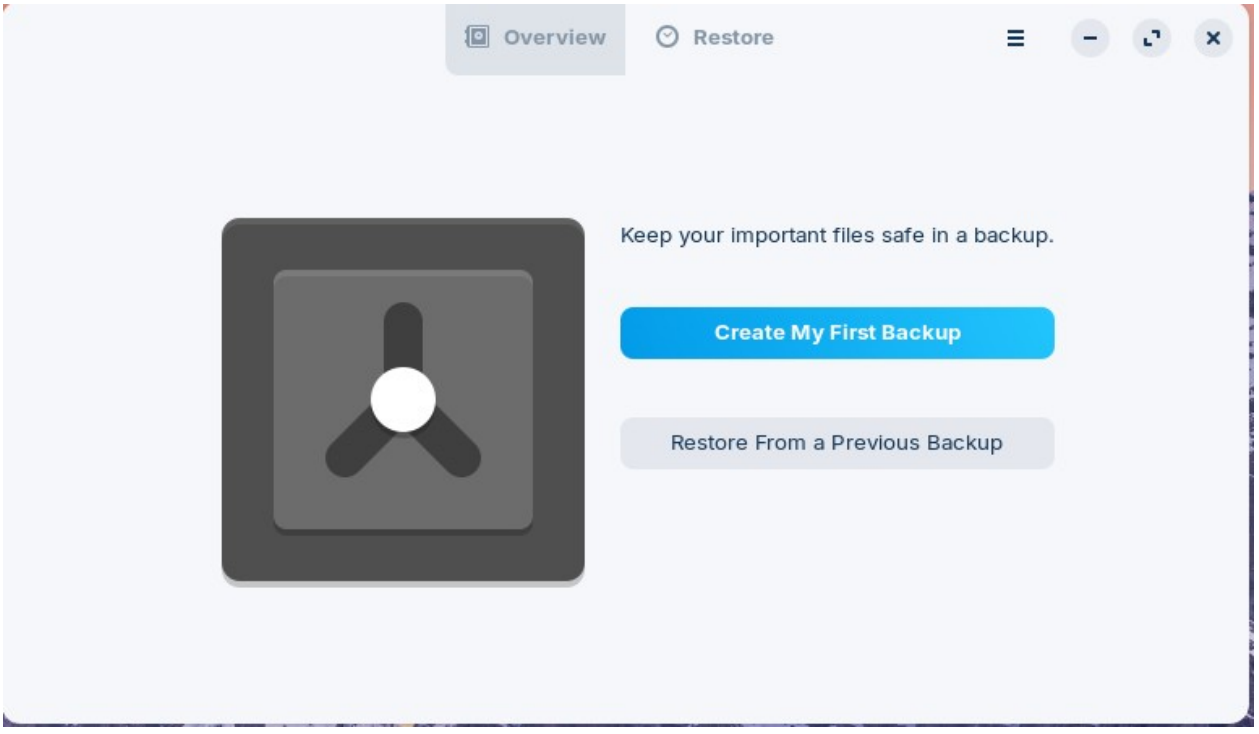
Position




Cancel
Extract
Extract
Recent
Home
Documents
Downloads
Music
Pictures
Videos
Rubbish Bin
MULTIS...
Ventoy
Other Locations
swarfendor437
Desktop
Name
Size
Type
Modified
betterbird-115.4.0-bb16.en-US.linux-x86_64.tar.bz2
76.4 MB
Archive
26 Oct
softmaker-office-2018_982-01_amd64.deb
318.8 MB
Archive
13 Oct
TXT.txt
14 bytes
Text
Yesterday
Zorin-OS-17-Core-64-bit.iso
3.8 GB
raw CD image
Thu
Extract
All files
Selected files
Files:
Actions
Keep directory structure
Do not overwrite newer files

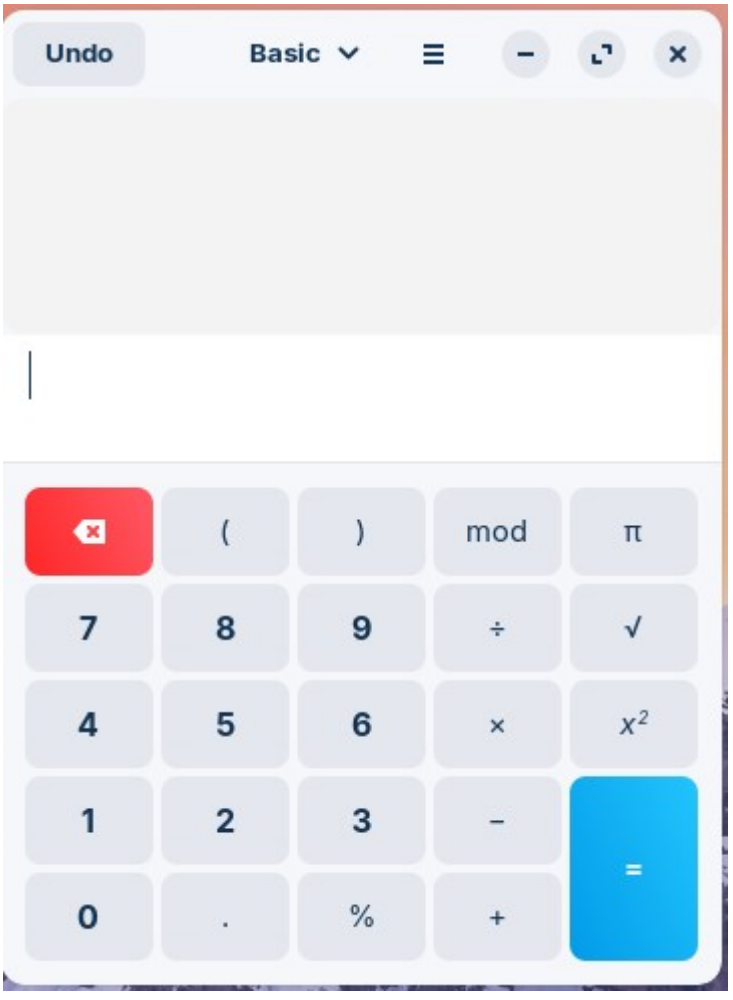
Taskbar Settings

Behavior



Taskbar Settings

Action

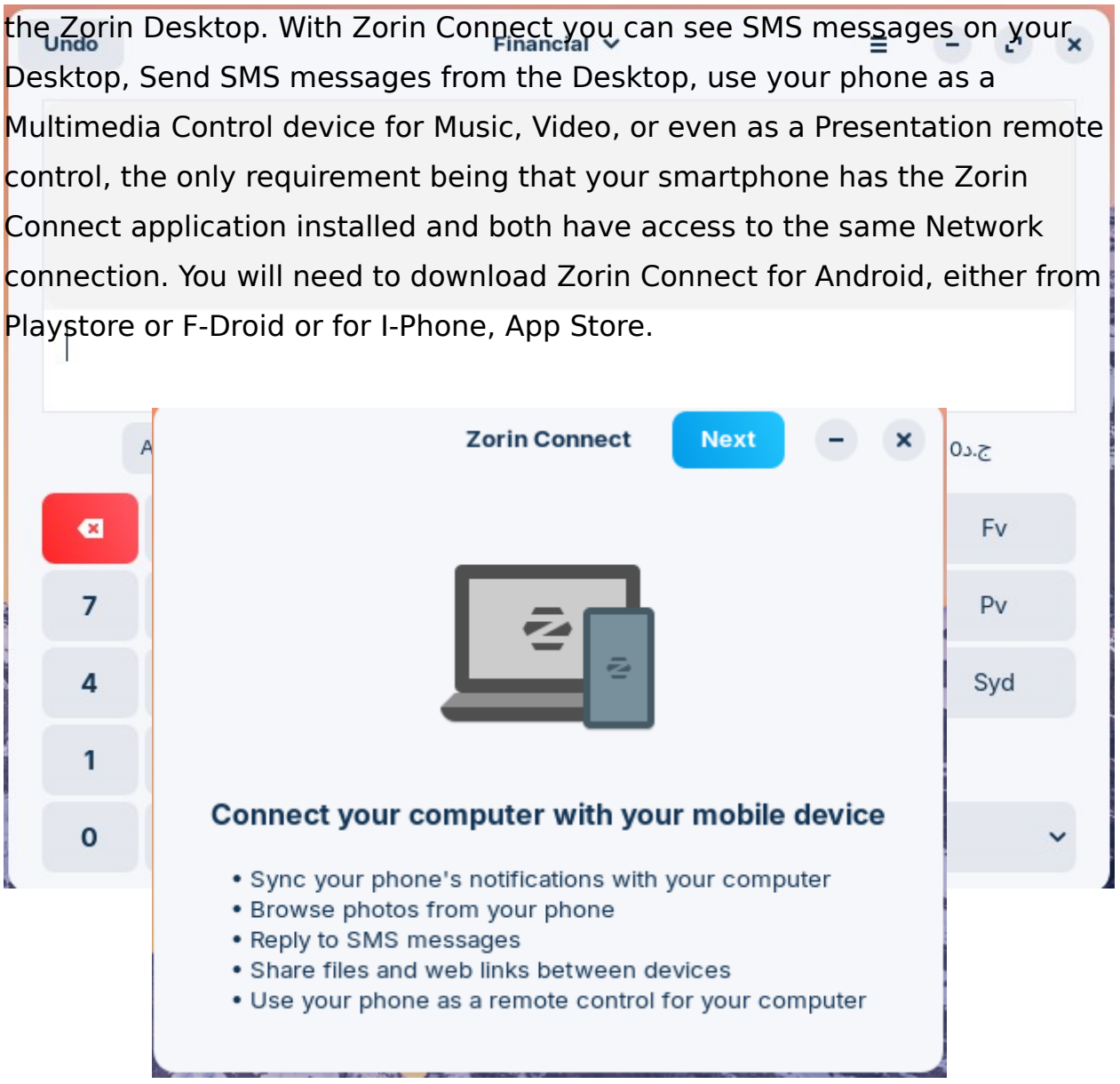


Desktop

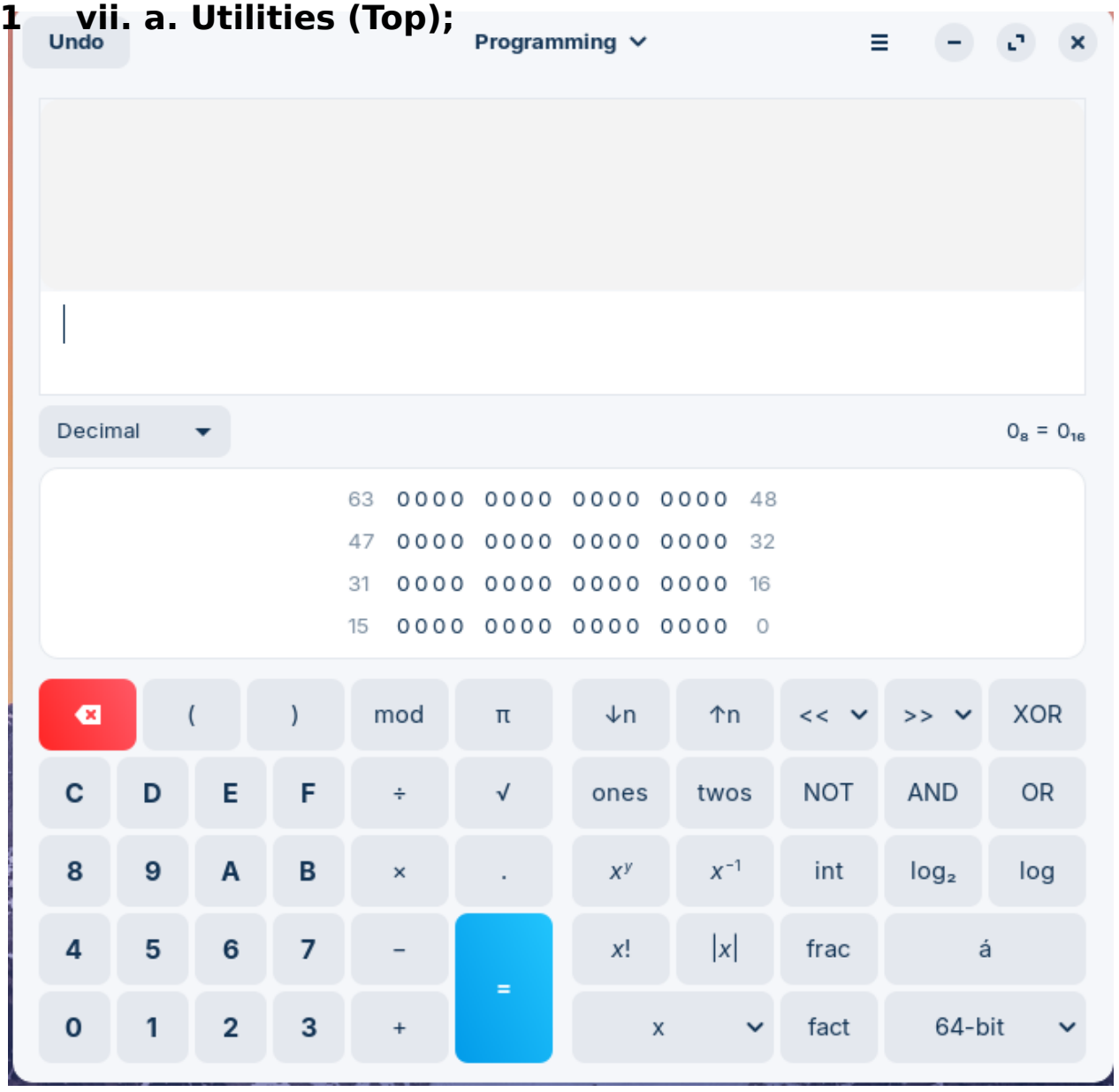
This is where you can decide whether or not you wish to have **system icons** (Home, Rubbish Bin, Mounted Volumes, Network Servers) on the Desktop or not, and what size you would like them to be (Tiny, Small, Standard or Large).

Fonts - This is where you can decide on the fonts you wish to use throughout the system. You might have noticed that I have adopted the ‘Comic Relief’ font, which is the open source equivalent of Microsoft’s Comic Sans font. **Interface Text, Monospace Text** and **Document Text**.

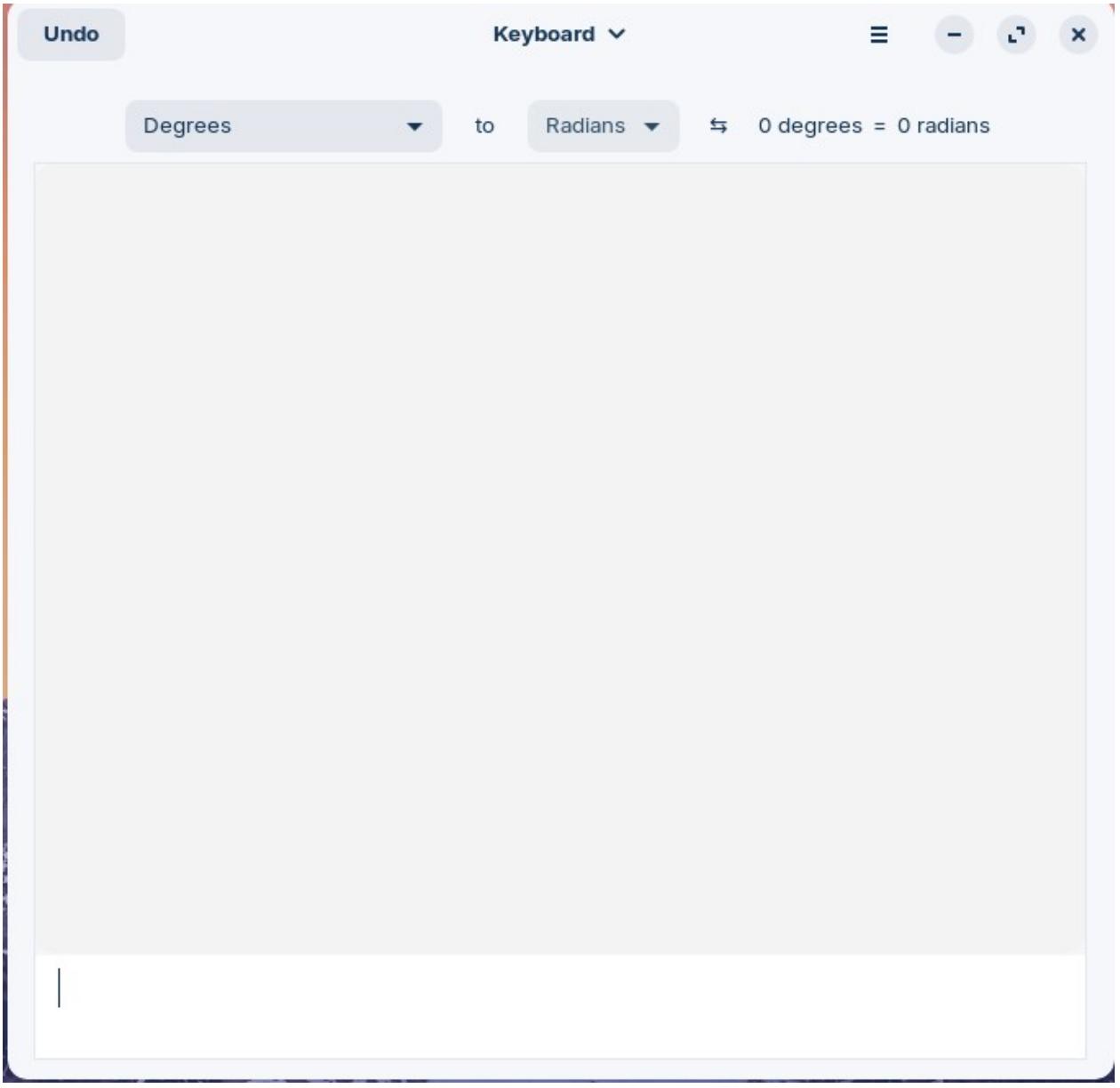
Zorin Connect- This is software to enable your smartphone to connect with the Zorin Desktop. With Zorin Connect you can see SMS messages on your Desktop, Send SMS messages from the Desktop, use your phone as a Multimedia Control device for Music, Video, or even as a Presentation remote control, the only requirement being that your smartphone has the Zorin Connect application installed and both have access to the same Network connection. You will need to download Zorin Connect for Android, either from Playstore or F-Droid or for I-Phone, App Store.



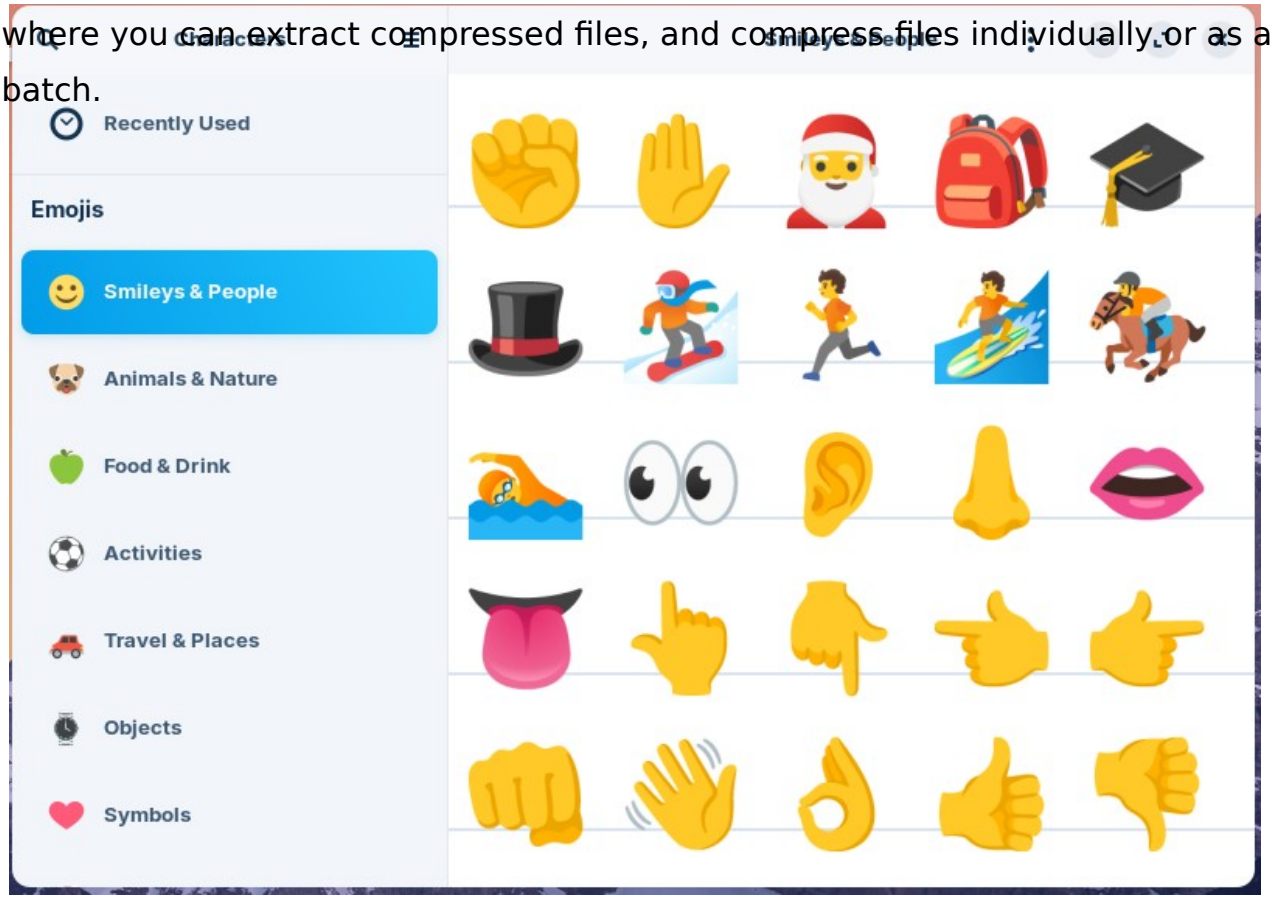
1 vii. a. Utilities (Top);

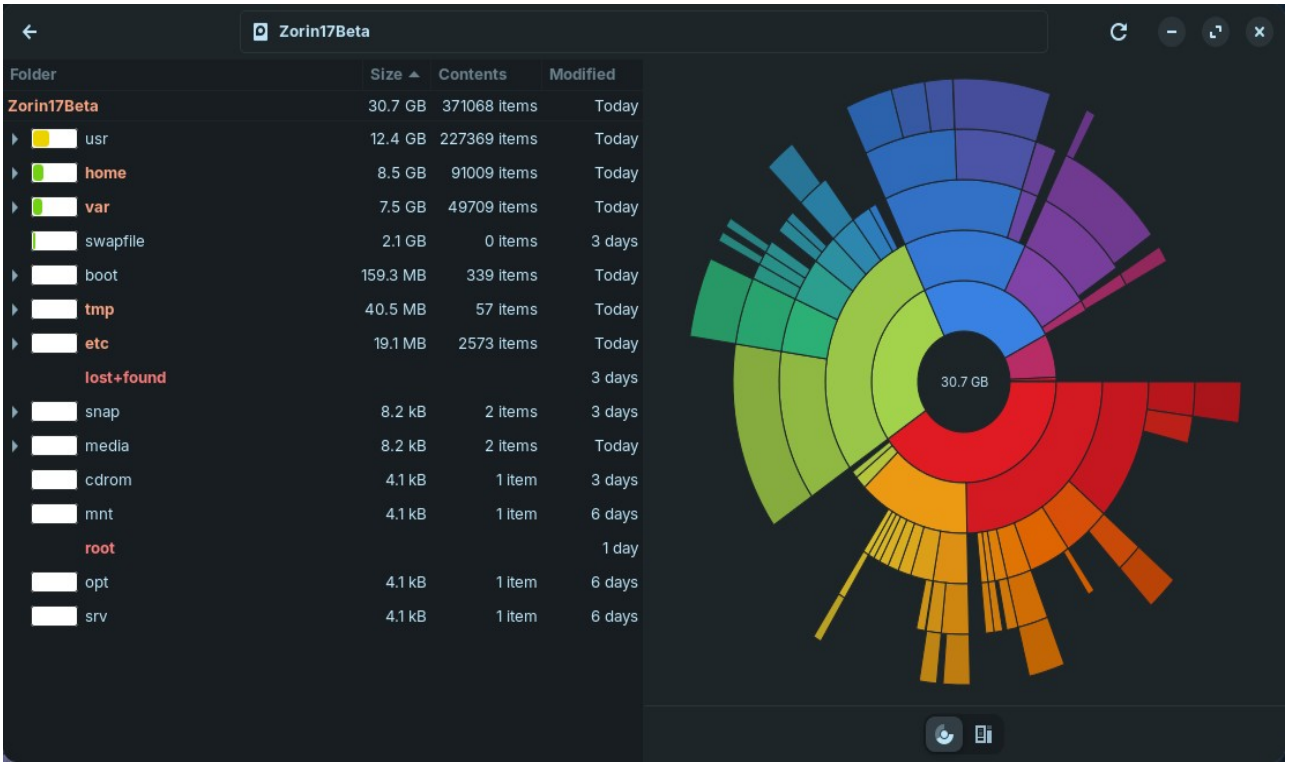


Advanced Network Configuration - Of all the latest changes to the OS, this has got to be one of the most outstanding updates to the Zorin Operating System. Gone are the days where users were struggling to connect using DSL/PPPoE - it's all here (see screenshot on next page).

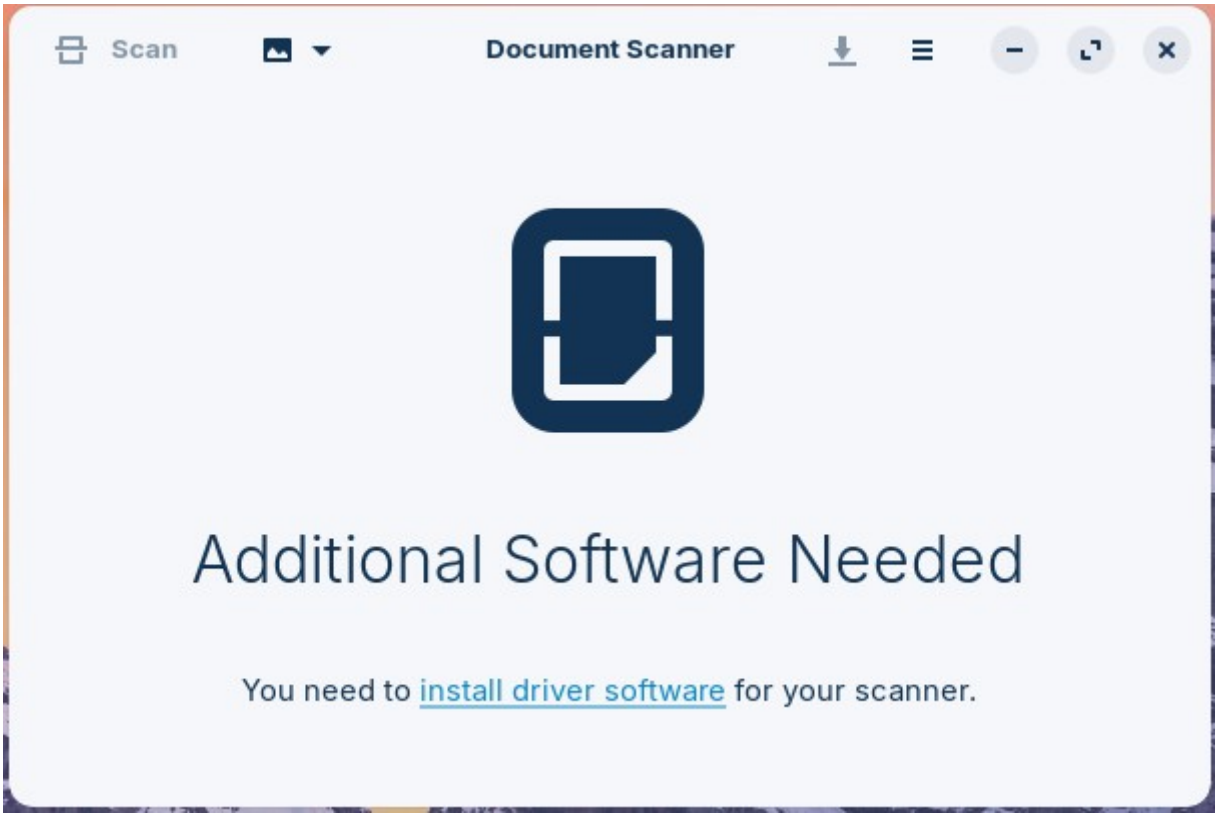

Undo
Keyboard
Degrees
to
Radians
0 degrees = 0 radians

Archive Manager - this is similar to Winzip, WinRAR, 7-Zip archiving tool where you can extract compressed files, and compress files individually or as a batch.

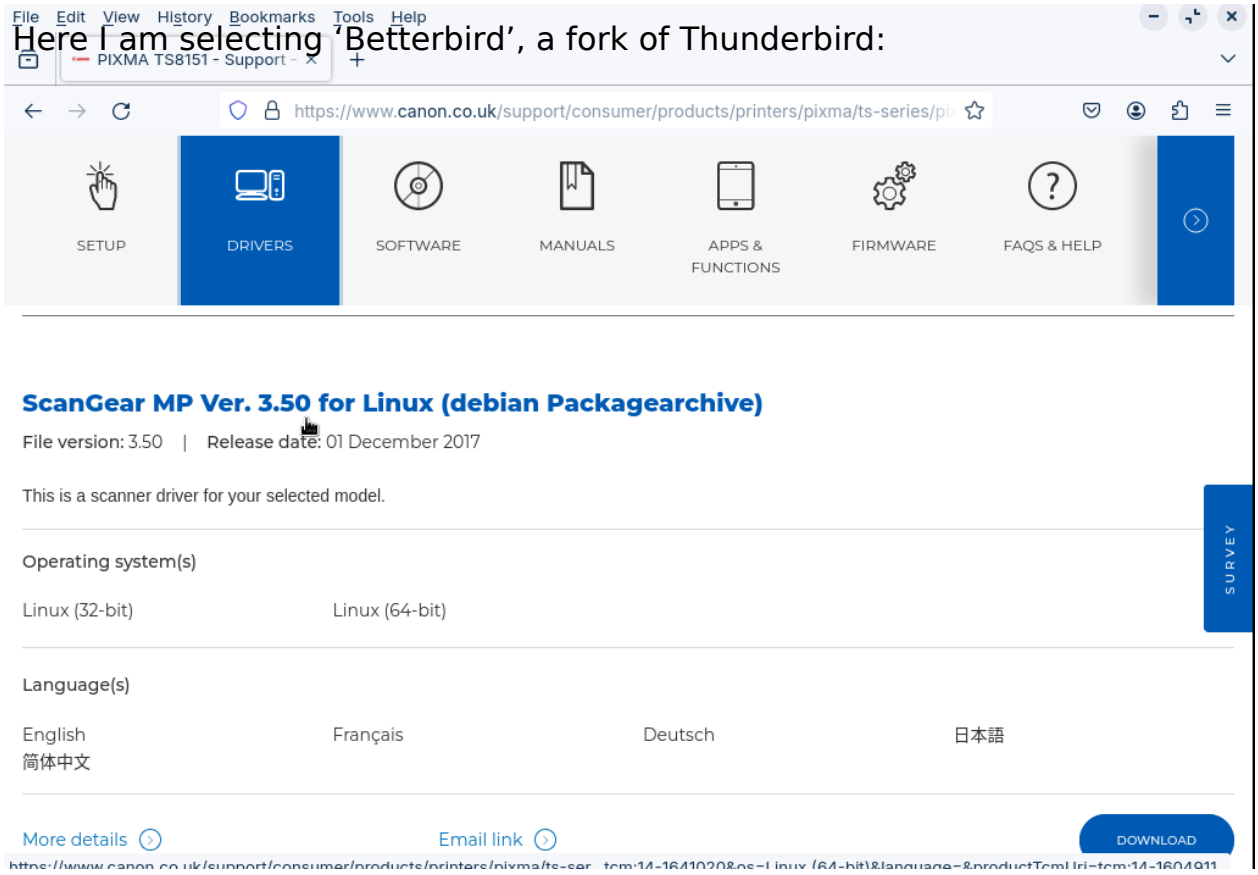


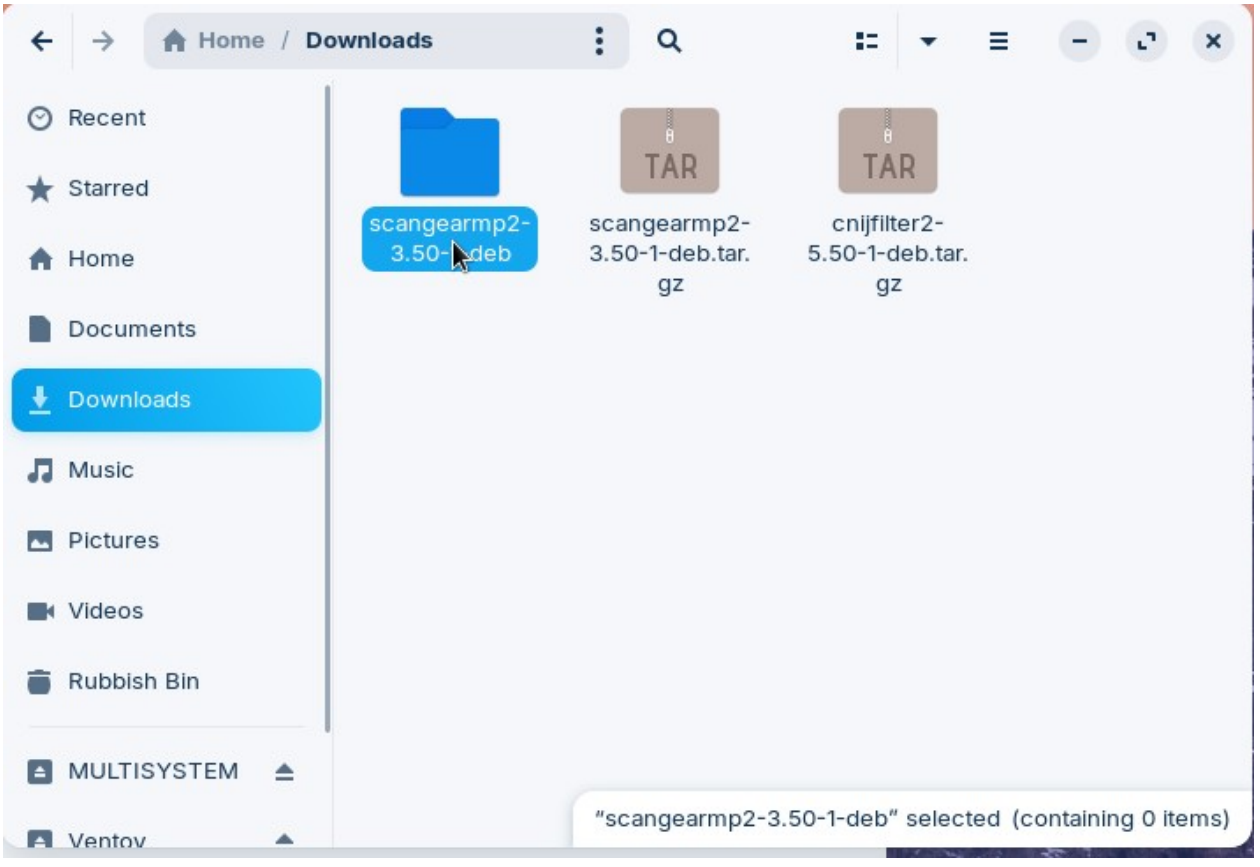

Zorin17Beta
Folder
Size
Contents
Modified
Zorin17Beta 30.7 GB 371068 items Today
usr 12.4 GB 227369 items Today
home 8.5 GB 91009 items Today
var 7.5 GB 49709 items Today
swapfile 2.1 GB 0 items 3 days
boot 159.3 MB 339 items Today
tmp 40.5 MB 57 items Today
etc 19.1 MB 2573 items Today
lost+found 3 days
snap 8.2 kB 2 items 3 days
media 8.2 kB 2 items Today
cdrom 4.1 kB 1 item 3 days
mnt 4.1 kB 1 item 6 days
root 1 day
opt 4.1 kB 1 item 6 days
srv 4.1 kB 1 item 6 days
30.7 GB

Click on the ‘hamburger’ icon (3 horizontal bars) to open the menu options:

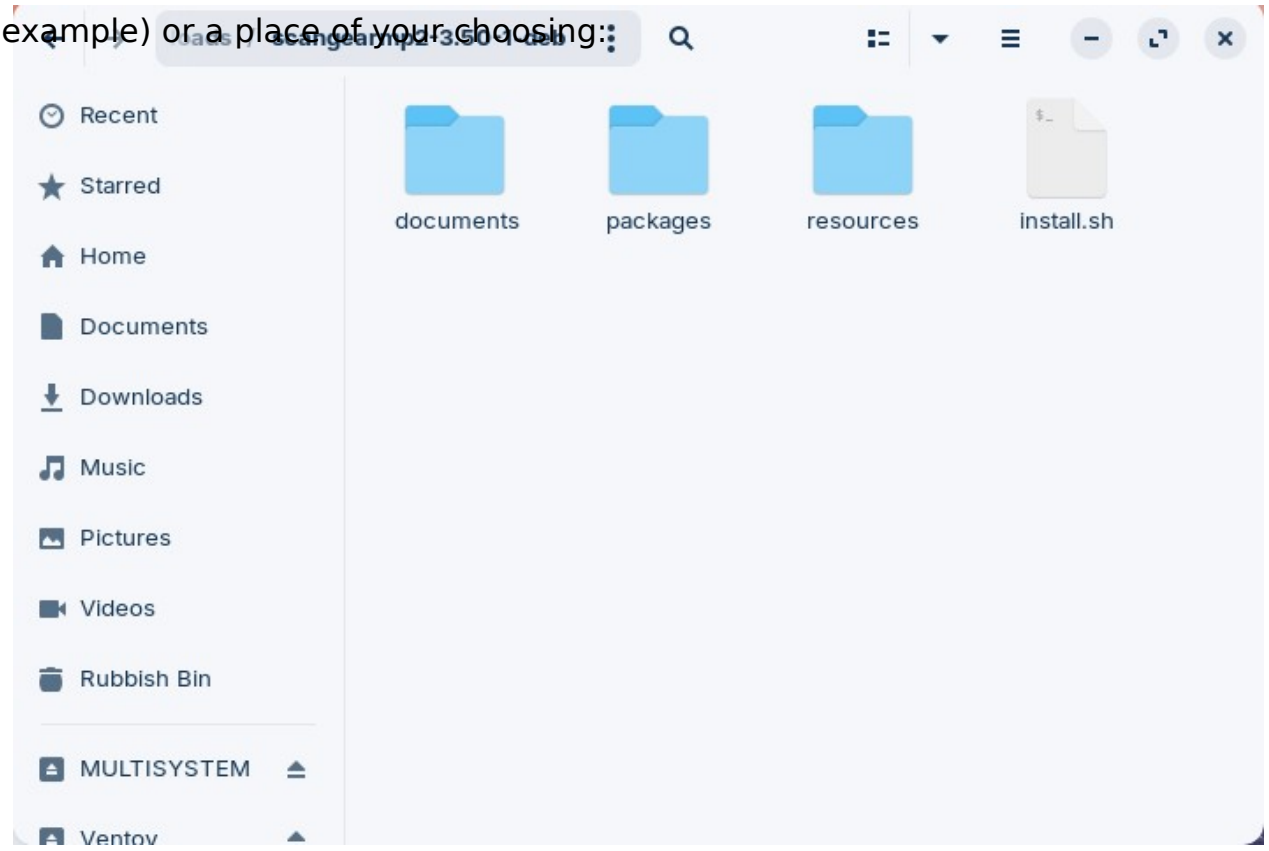


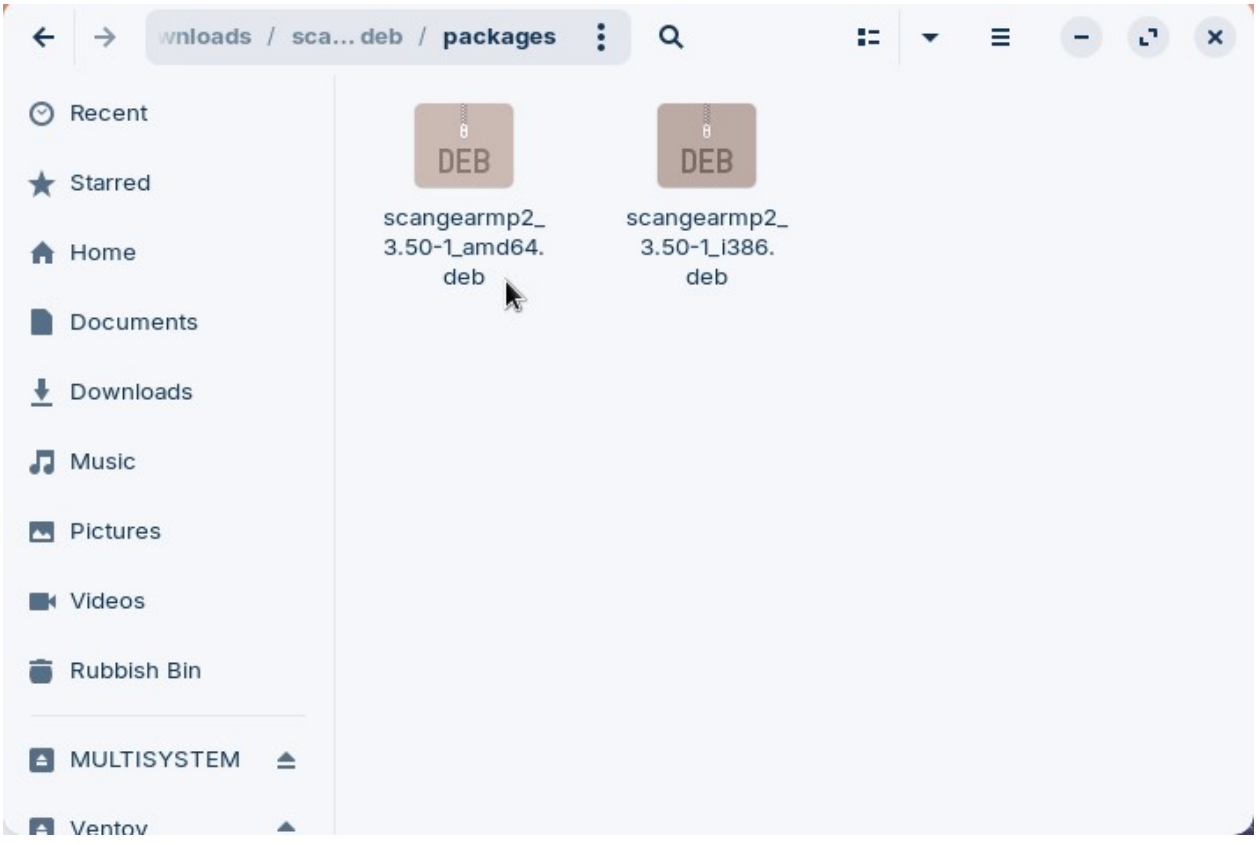
Here I am selecting ‘Betterbird’, a fork of Thunderbird:



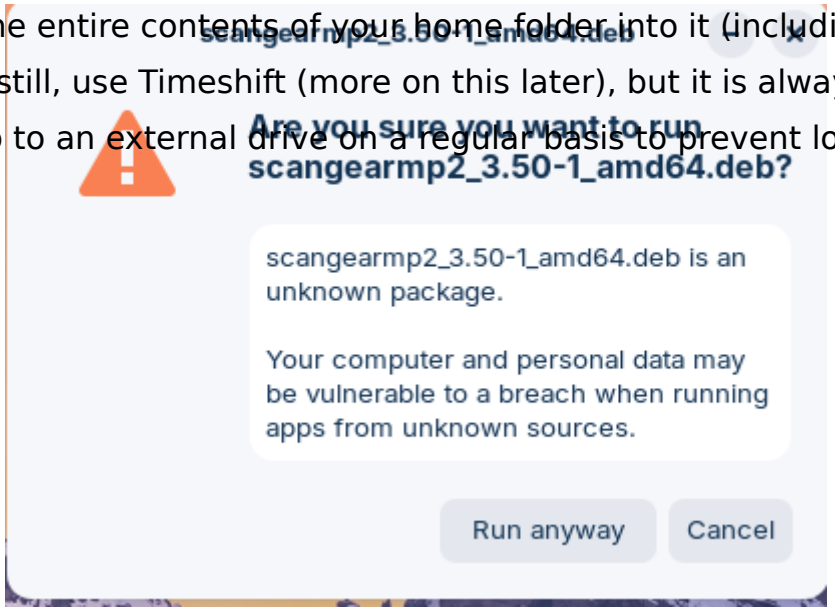


When selected you can extract to the original location (Desktop in this example) or a place of your choosing::





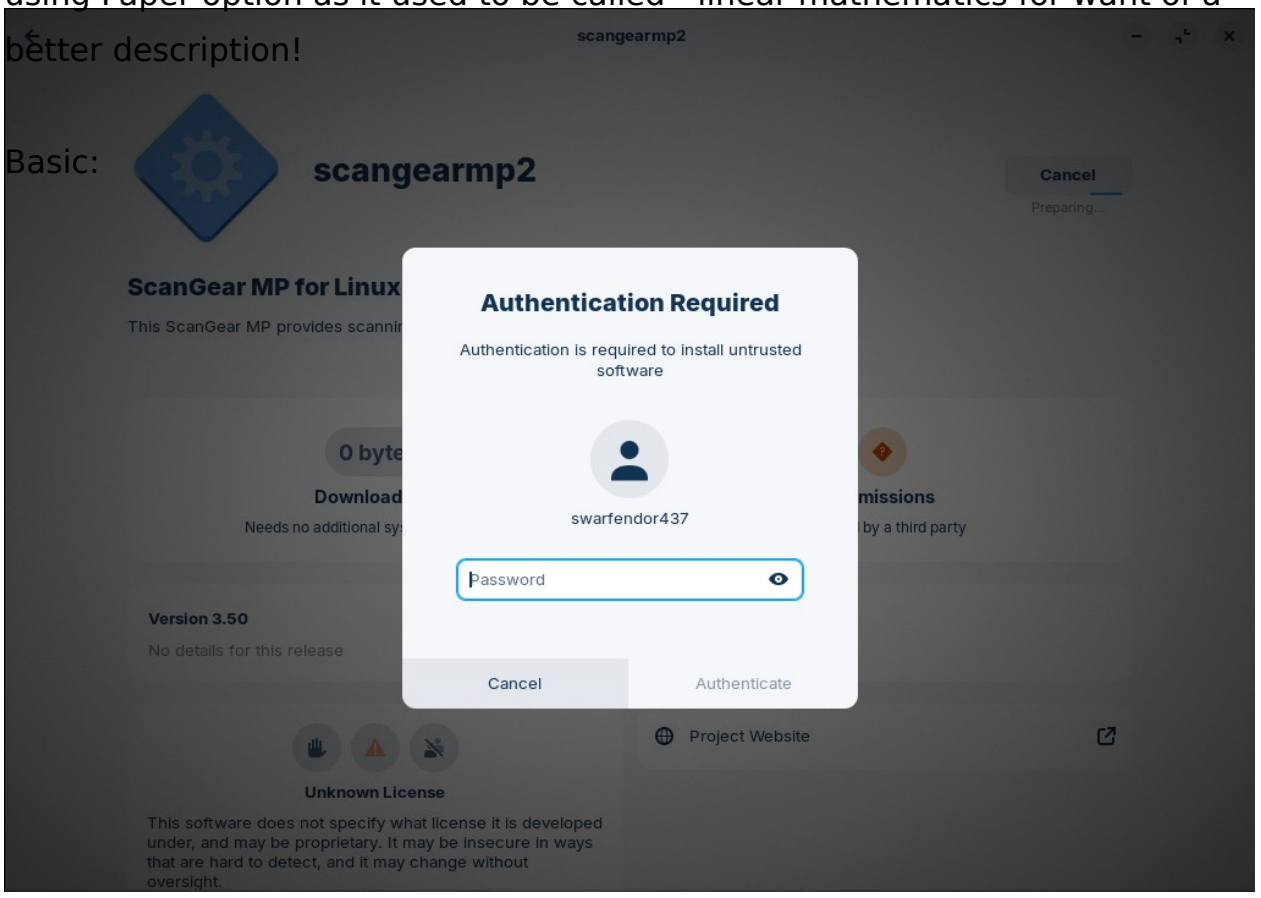
Backups - this is the new name for **Déjà Dup** - guide on its use here: https://askmeaboutlinux.com/2022/10/27/deja-dup-for-backups-on-linux/ (Personally, it is just a lot simpler to create a folder on an external drive and copy the entire contents of your home folder into it (including hidden files), or better still, use Timeshift (more on this later), but it is always good practice to backup to an external drive on a regular basis to prevent loss of data.


Are you sure you want to run scangearmp2_3.50-1_amd64.deb?
scangearmp2_3.50-1_amd64.deb is an unknown package.
Your computer and personal data may be vulnerable to a breach when running apps from unknown sources.
Run anyway
Cancel

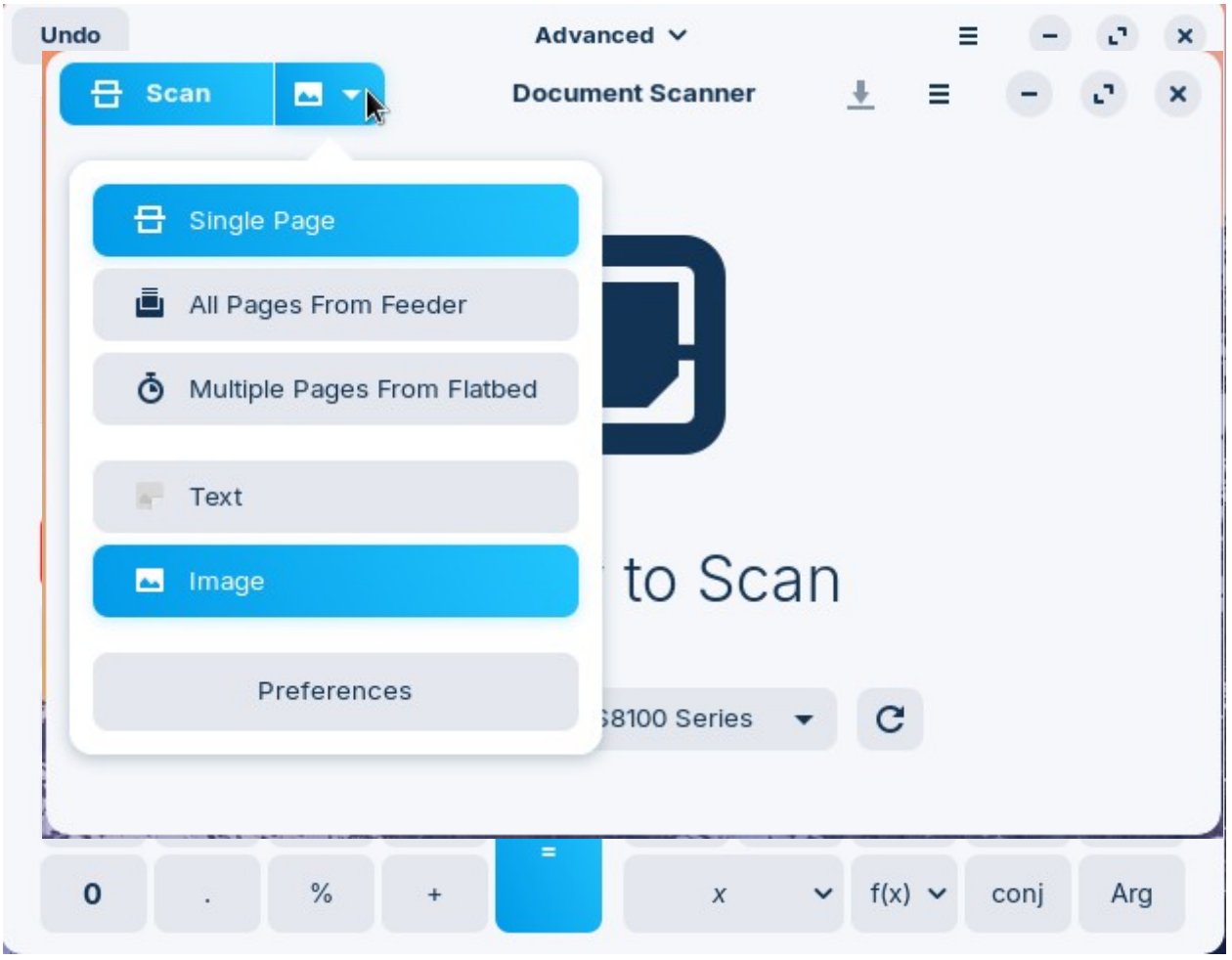
scangearmp2
scangearmp2
Install
Local file
ScanGear MP for Linux.
This ScanGear MP provides scanning functions for Canon Multifunction Inkjet Printer.
0 bytes
Download Size
Needs no additional system downloads
Permissions
Provided by a third party
Version 3.50
No details for this release
Project Website
Unknown License
This software does not specify what license it is developed under, and may be proprietary. It may be insecure in ways that are hard to detect, and it may change without oversight.

Calculator - a calculator with many faces, Basic, Advanced (Scientific), Financial (includes currency converter), Programming, Keyboard (= same as using Paper option as it used to be called - linear mathematics for want of a better description!

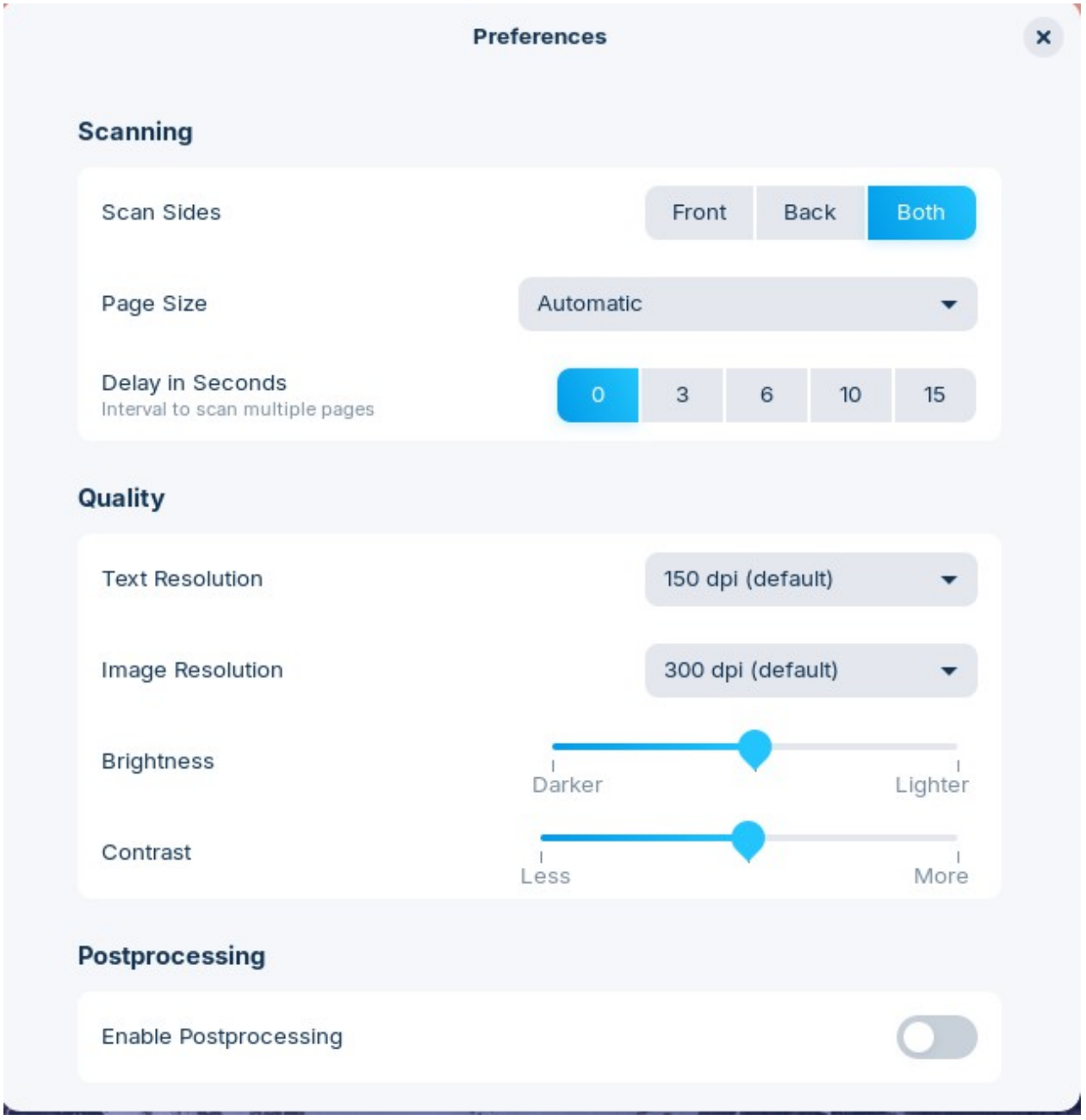
Basic:


scangearmp2
scangearmp2
Cancel
Preparing...
ScanGear MP for Linux
Authentication Required
Authentication is required to install untrusted software
swarfendor437
Password
Cancel
Authenticate
Version 3.50
No details for this release
Project Website
Unknown License
This software does not specify what license it is developed under, and may be proprietary. It may be insecure in ways that are hard to detect, and it may change without oversight.

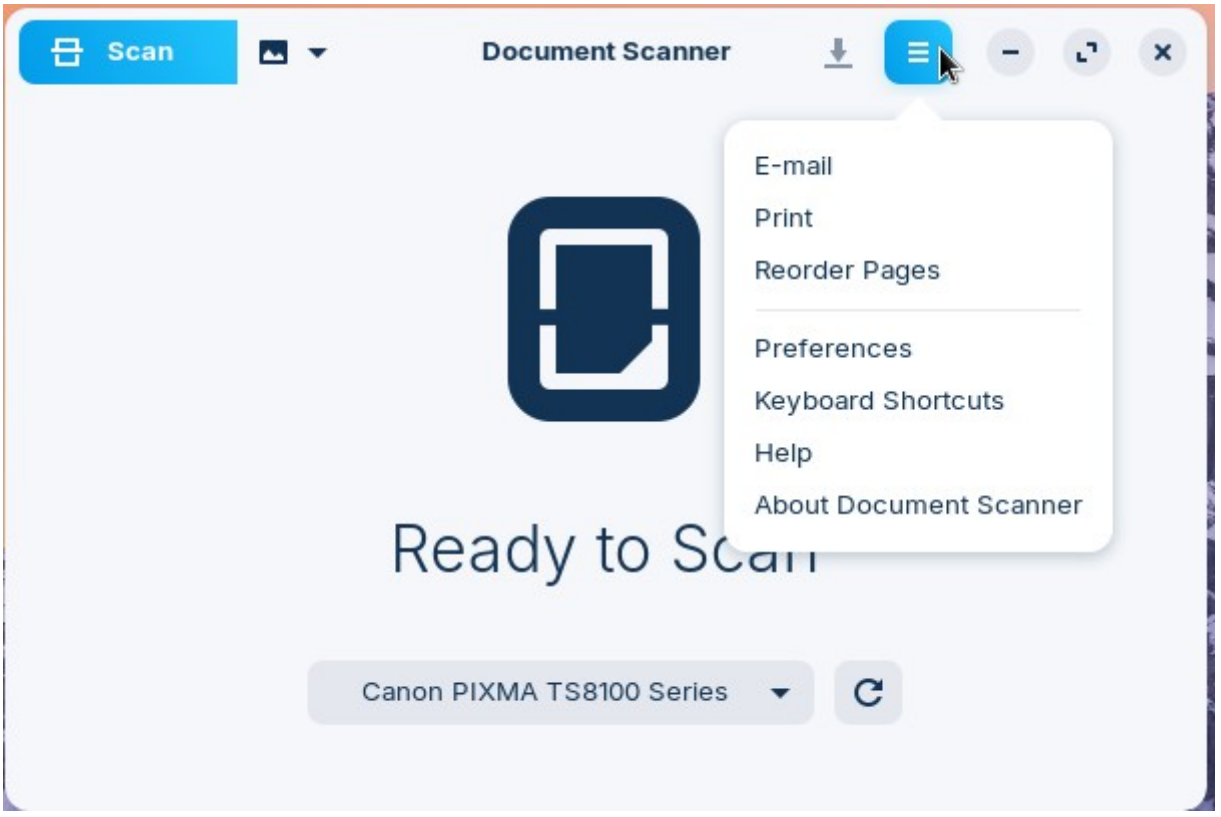
Advanced:


Undo
Advanced
Scan
Document Scanner
Single Page
All Pages From Feeder
Multiple Pages From Flatbed
Text
Image
Preferences
to Scan
8100 Series
0
.
%
+
=
x
f(x)
conj
Arg

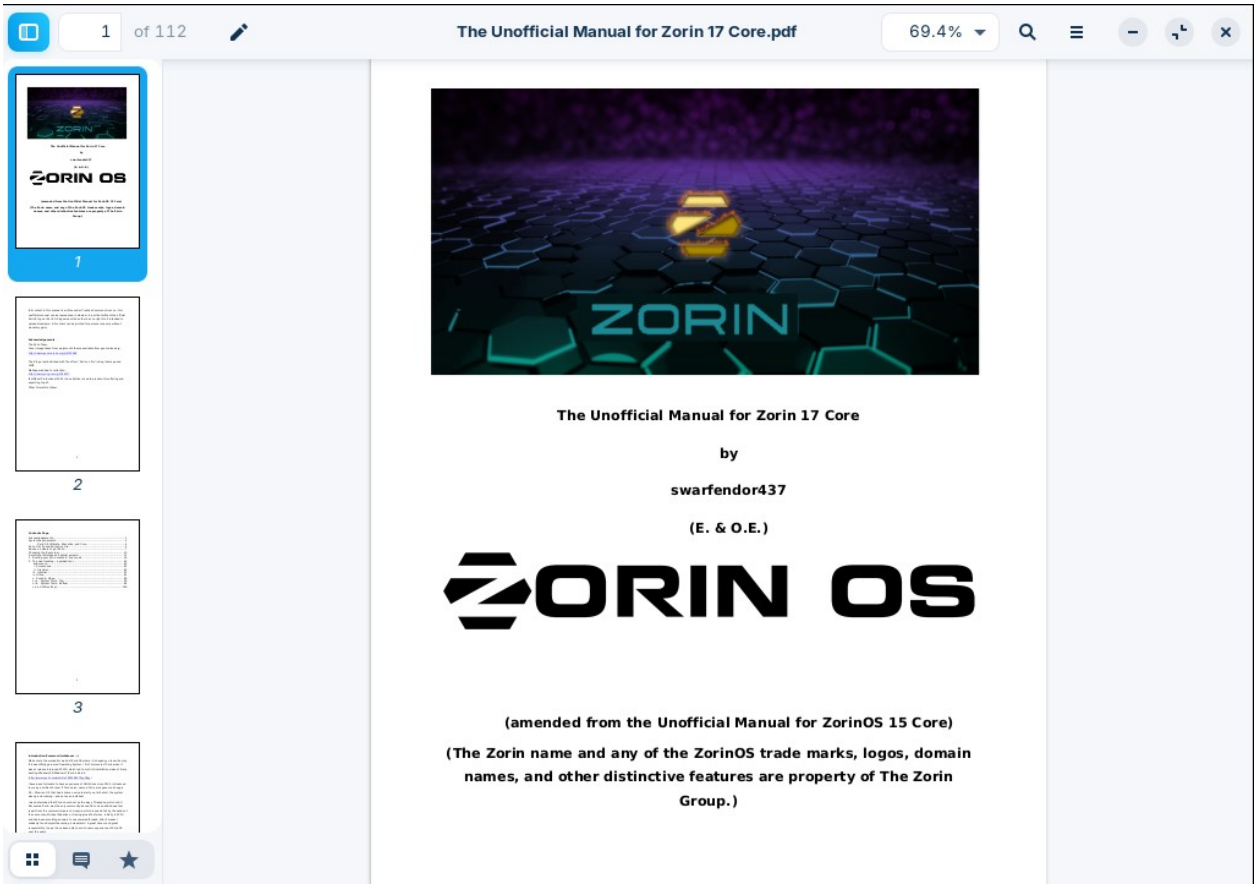
Financial:


Preferences
Scanning
Scan Sides
Front
Back
Both
Page Size
Automatic
Delay in Seconds
Interval to scan multiple pages
0
3
6
10
15
Quality
Text Resolution
150 dpi (default)
Image Resolution
300 dpi (default)
Brightness
Darker
Lighter
Contrast
Less
More
Postprocessing
Enable Postprocessing

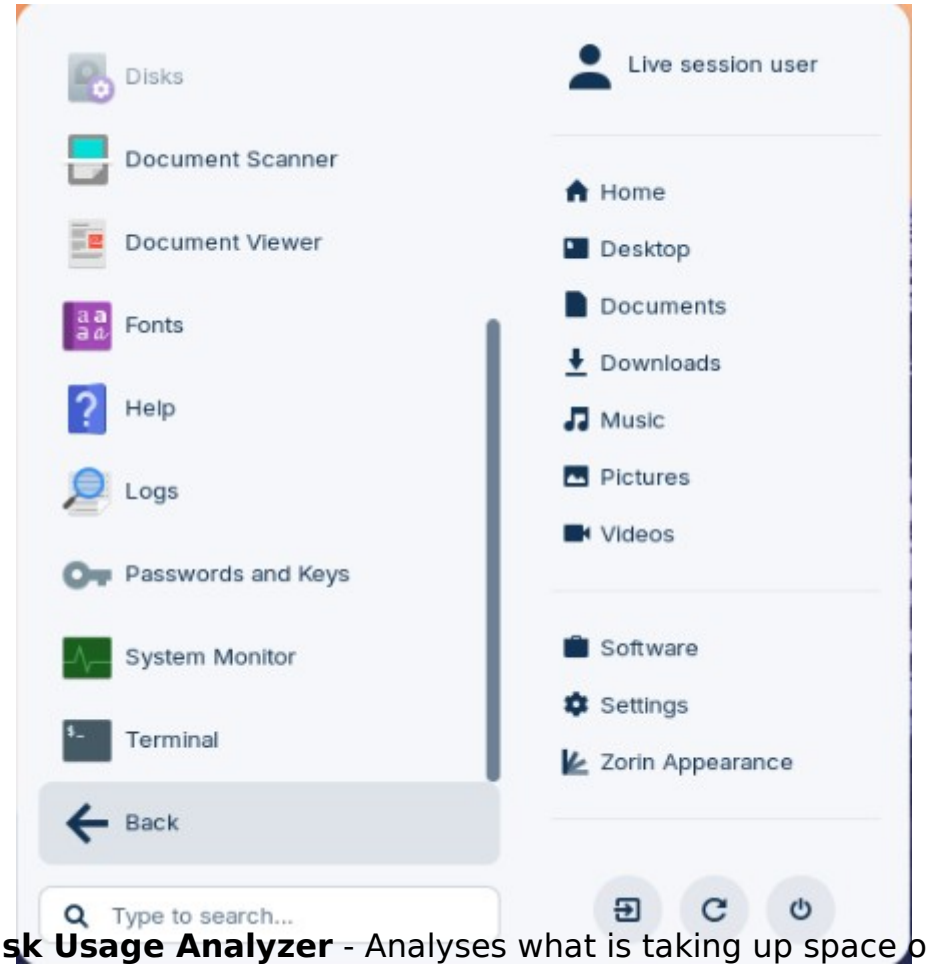
Programming:



Keyboard:


1 of 112
The Unofficial Manual for Zorin 17 Core.pdf
69.4%
ZORIN
The Unofficial Manual for Zorin 17 Core
by
swarfendor437
(E. & O.E.)
ZORIN OS
(amended from the Unofficial Manual for ZorinOS 15 Core)
(The Zorin name and any of the ZorinOS trade marks, logos, domain names, and other distinctive features are property of The Zorin Group.)

Characters- basically, fancy emojis! Here is a sample:



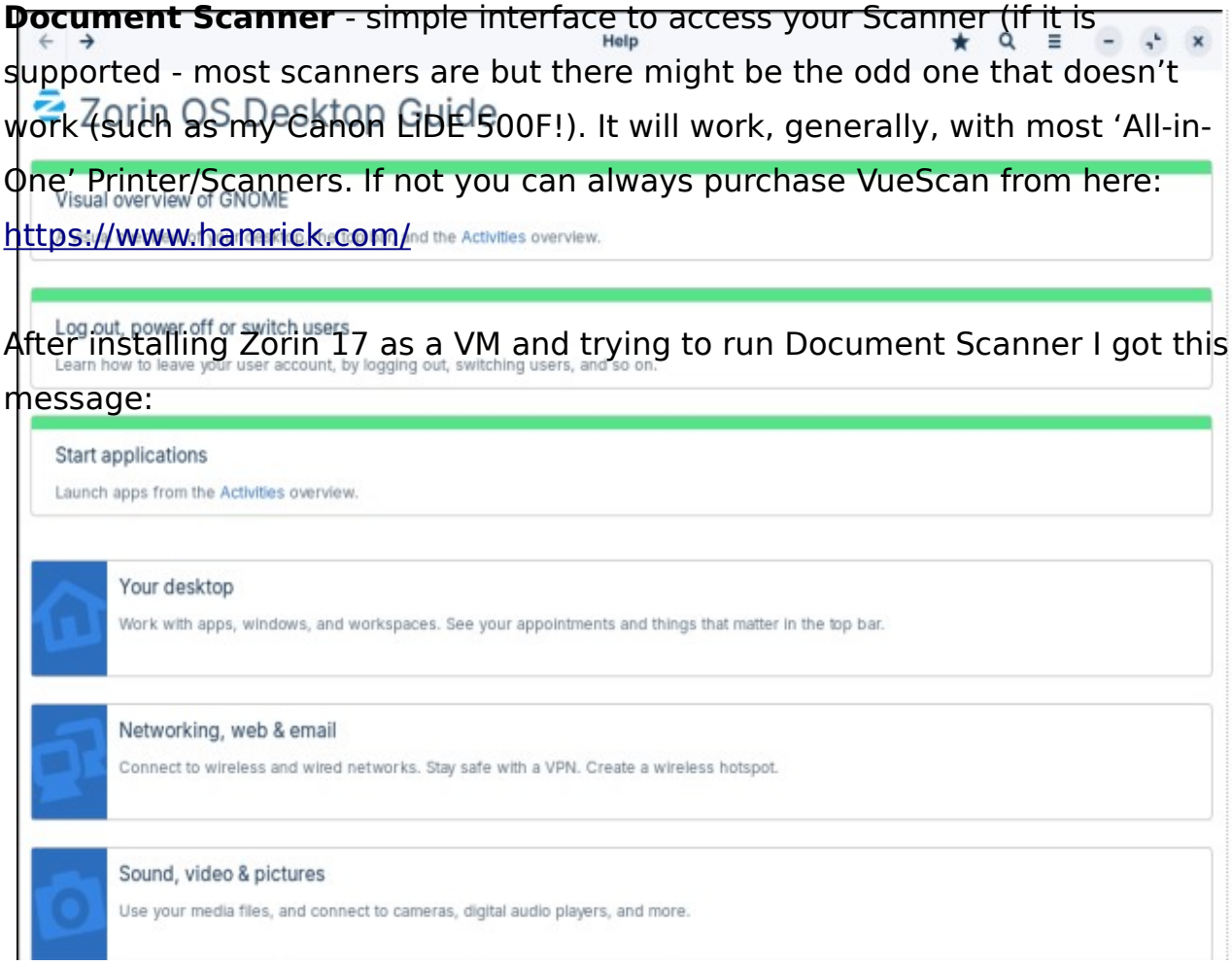
Disk Usage Analyzer - Analyses what is taking up space on your Disk/s:

All Fonts
Aa
aakar, Medium
Aa
Abyssinica SIL
Aa
Ani
Aa
AnjaliOldLipi
Aa
Arimo
Aa
Arimo, Bold
Aa
Arimo, Bold Italic
Aa
Arimo, Regular Italic
Aa
Bitstream Charter
Aa
Bitstream Charter, Bold
Aa
Bitstream Charter, Bold Italic
Aa
Bitstream Charter, Regular Italic

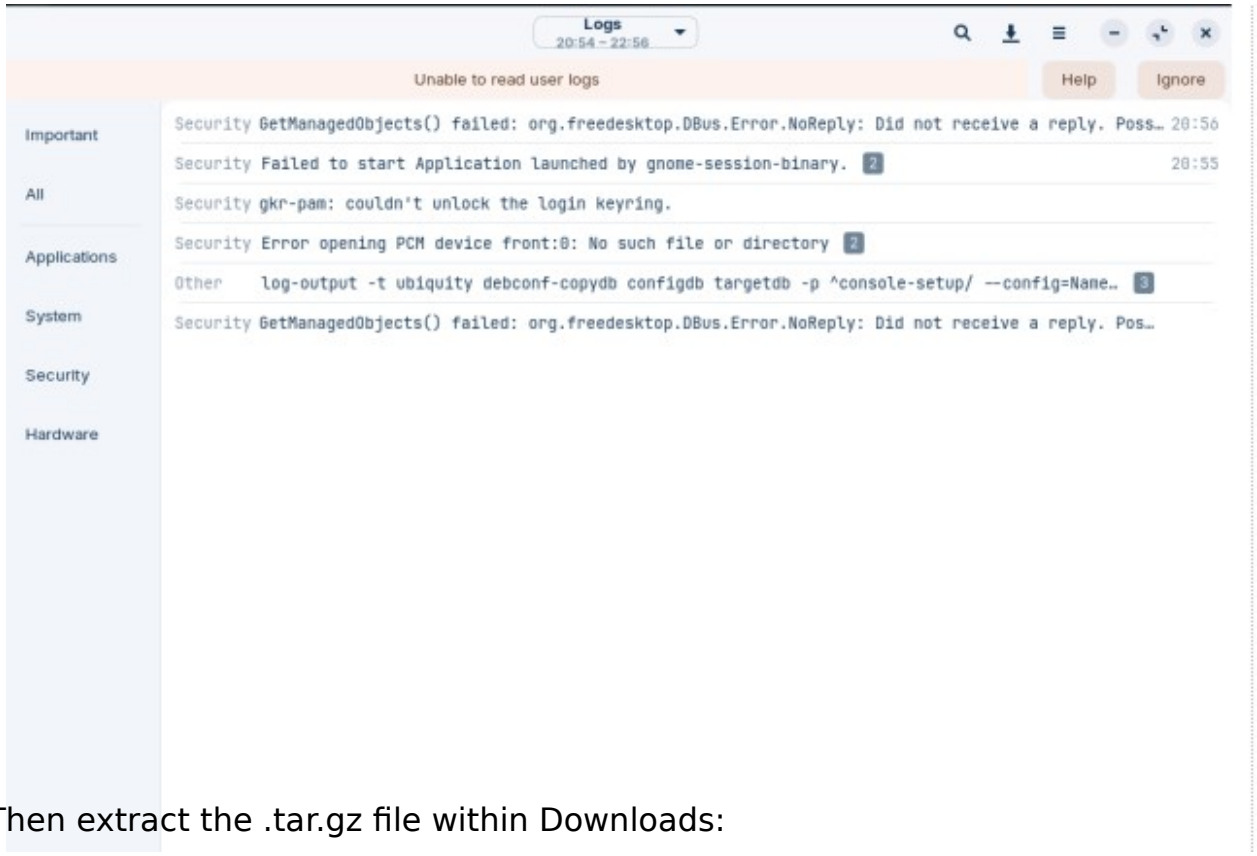
Disks (see page 36) - this is a repeat of what can be found in System Tools - the choice is yours if you want to keep both Menu items or simply untick the one you don't want to appear in the Menu.

Document Scanner - simple interface to access your Scanner (if it is supported - most scanners are but there might be the odd one that doesn't work (such as my Canon LIDE 500F!). It will work, generally, with most 'All-in-One' Printer/Scanners. If not you can always purchase VueScan from here: https://www.hamrick.com/

After installing Zorin 17 as a VM and trying to run Document Scanner I got this message:

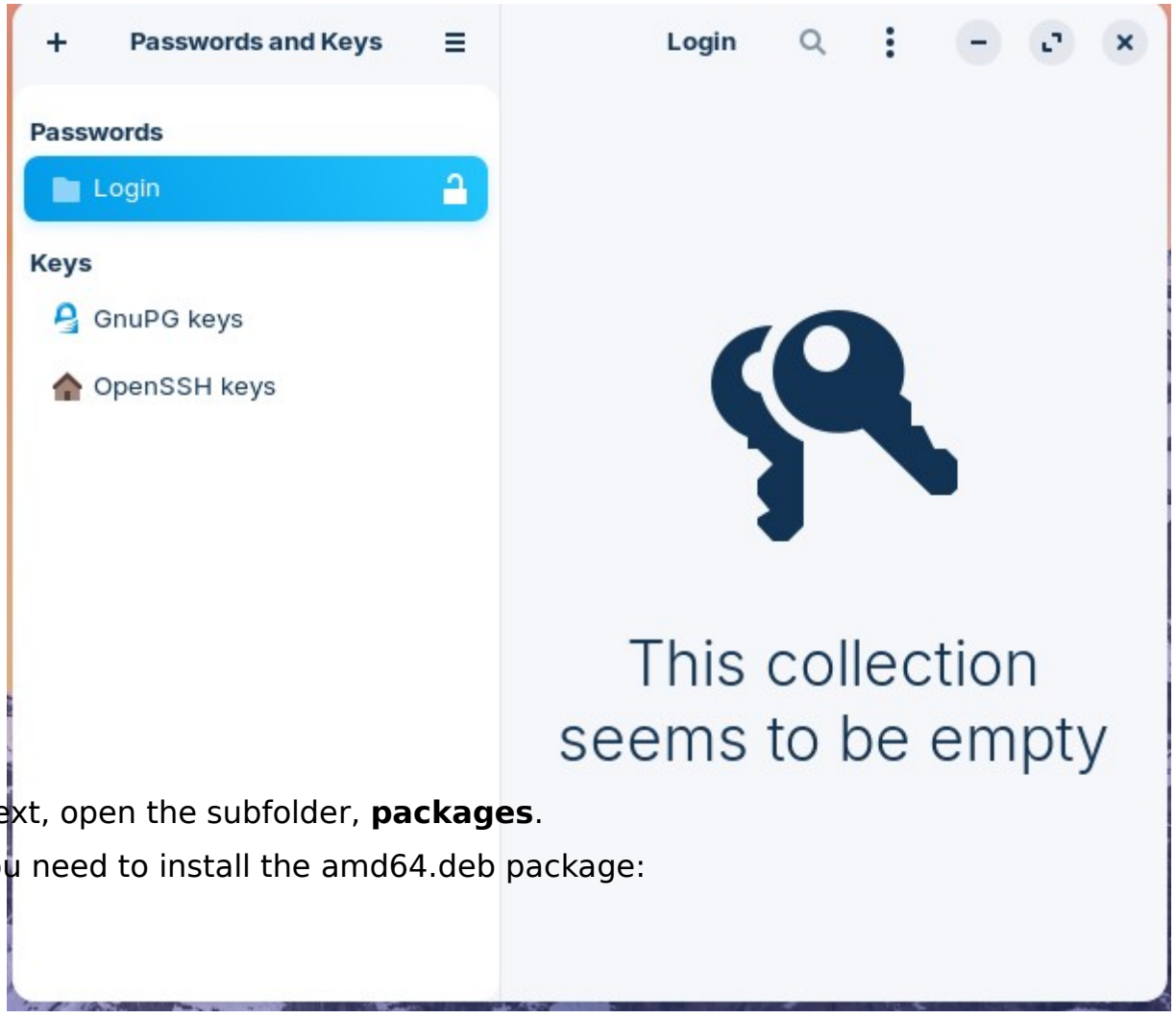

Help
Zorin OS Desktop Guide
Visual overview of GNOME
Log out, power off or switch users
Learn how to leave your user account, by logging out, switching users, and so on.
Start applications
Launch apps from the Activities overview.
Your desktop
Work with apps, windows, and workspaces. See your appointments and things that matter in the top bar.
Networking, web & email
Connect to wireless and wired networks. Stay safe with a VPN. Create a wireless hotspot.
Sound, video & pictures
Use your media files, and connect to cameras, digital audio players, and more.

When you click on the link, it takes you to the SANE project page to 'backend' drivers. An easier option is to go to (if you have a Canon Scanner/All-in-One Printer) to the Canon website and download the scangearmp2-3.50-1-deb.tar.gz file:


Logs
20:54 – 22:56
Unable to read user logs
Help
Ignore
Important
All
Applications
System
Security
Hardware
Security GetManagedObjects() failed: org.freedesktop.DBus.Error.NoReply: Did not receive a reply. Poss… 20:56
Security Failed to start Application launched by gnome-session-binary. 2 20:55
Security gkr-pam: couldn't unlock the login keyring.
Security Error opening PCM device front:0: No such file or directory 2
Other log-output -t ubiquity debconf-copydb configdb targetdb -p ^console-setup/ --config=Name… 3
Security GetManagedObjects() failed: org.freedesktop.DBus.Error.NoReply: Did not receive a reply. Pos…

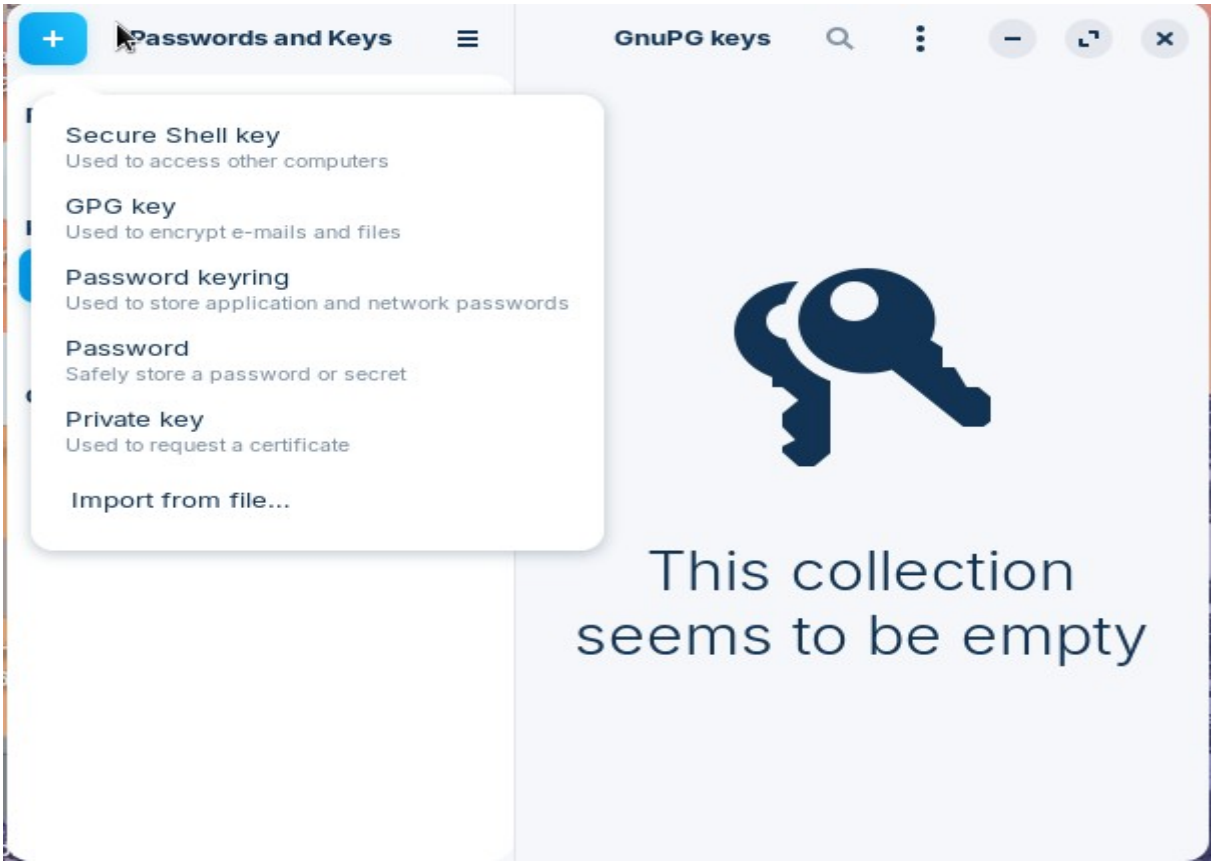
Then extract the .tar.gz file within Downloads:

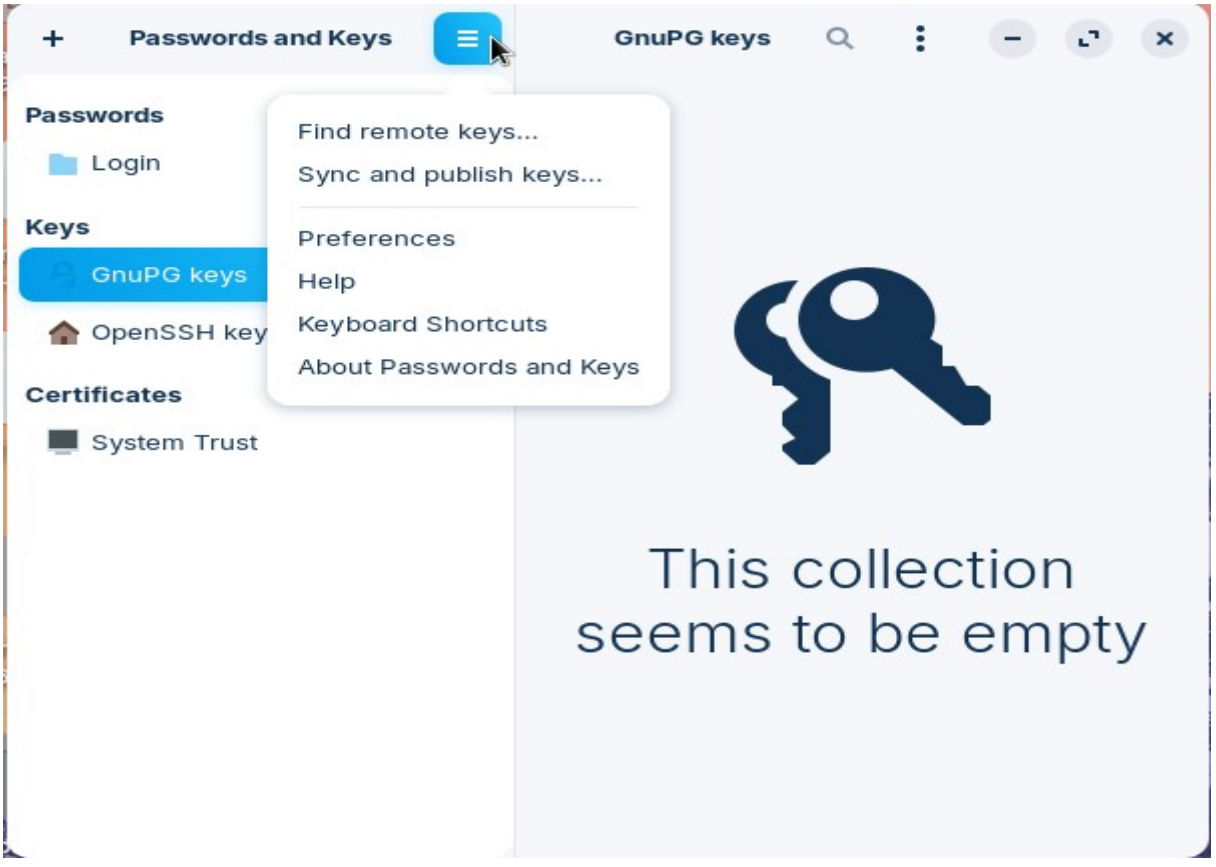
Open the extracted folder:



Next, open the subfolder, **packages**.

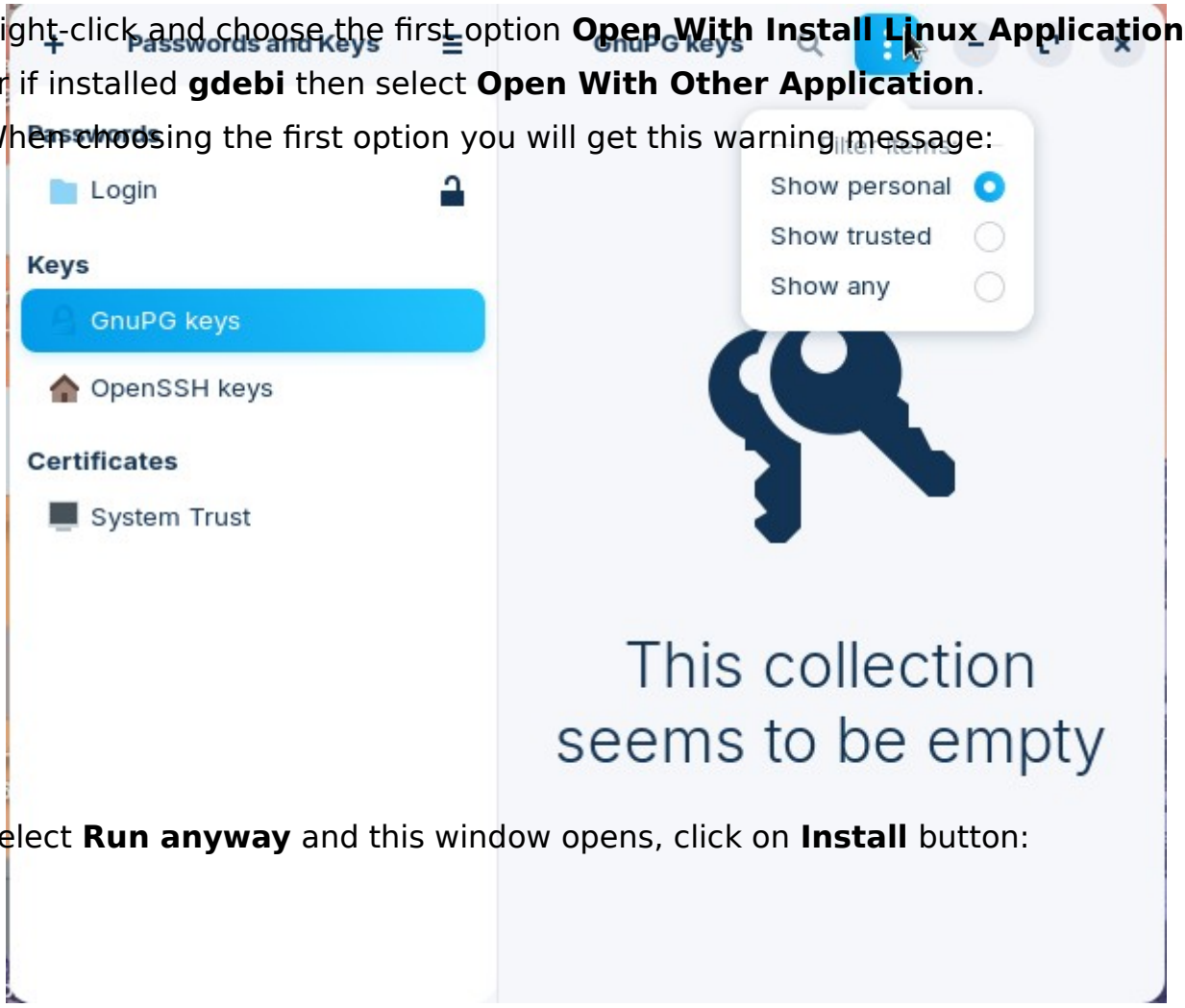
You need to install the amd64.deb package:


Passwords and Keys
GnuPG keys
Secure Shell key
Used to access other computers
GPG key
Used to encrypt e-mails and files
Password keyring
Used to store application and network passwords
Password
Safely store a password or secret
Private key
Used to request a certificate
Import from file...
This collection seems to be empty

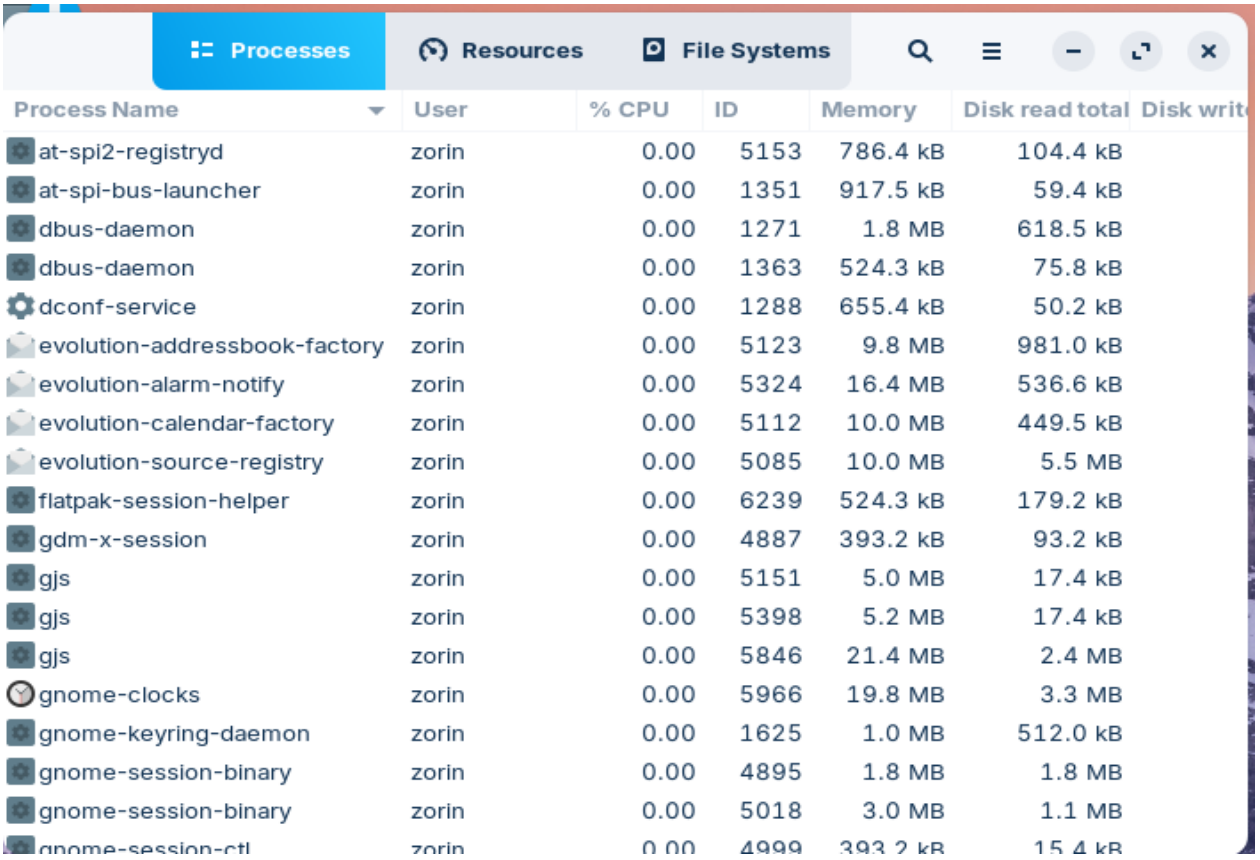

Passwords and Keys
GnuPG keys
Passwords
Login
Keys
GnuPG keys
OpenSSH key
Certificates
System Trust
Find remote keys...
Sync and publish keys...
Preferences
Help
Keyboard Shortcuts
About Passwords and Keys
This collection seems to be empty

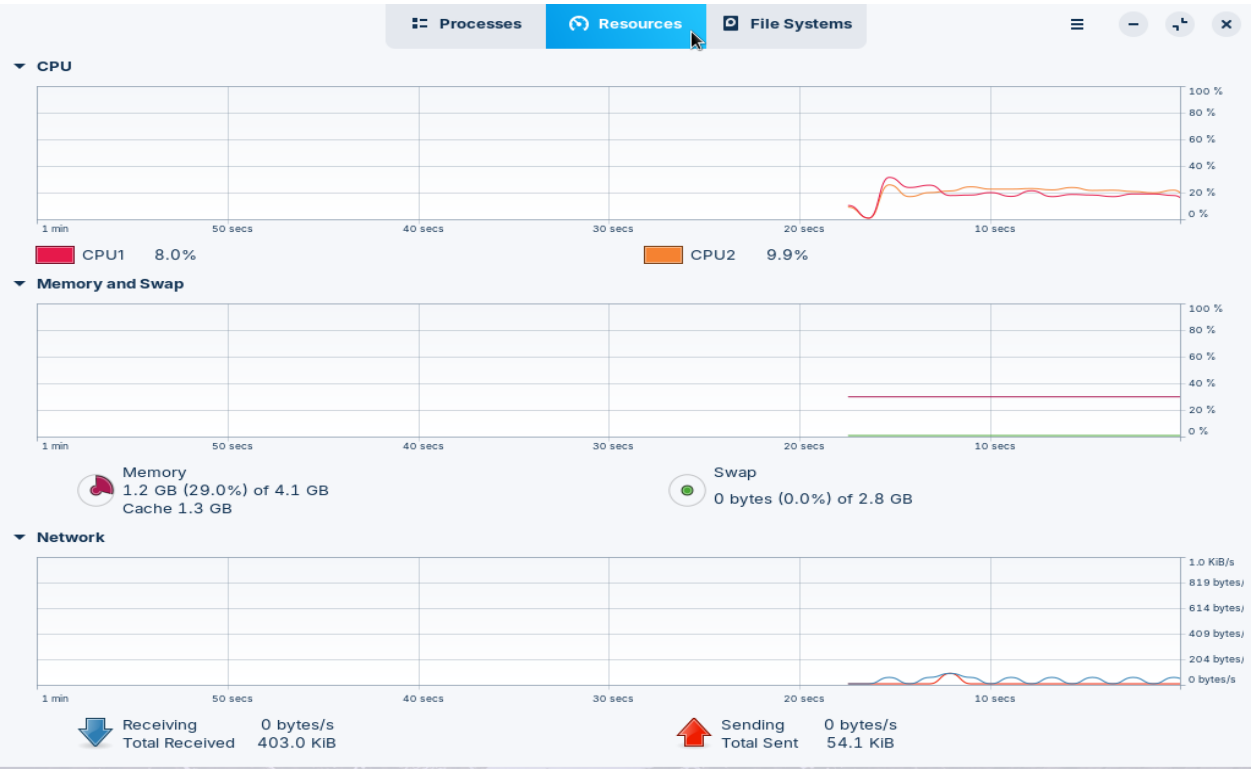
Right-click and choose the first option **Open With Install Linux Application** or if installed **gdebi** then select **Open With Other Application**.

When choosing the first option you will get this warning message:

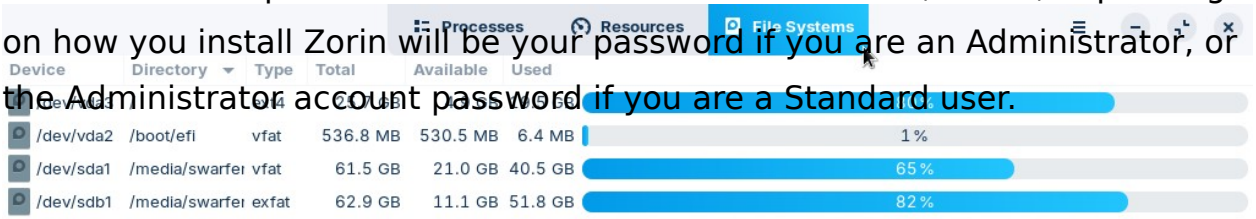


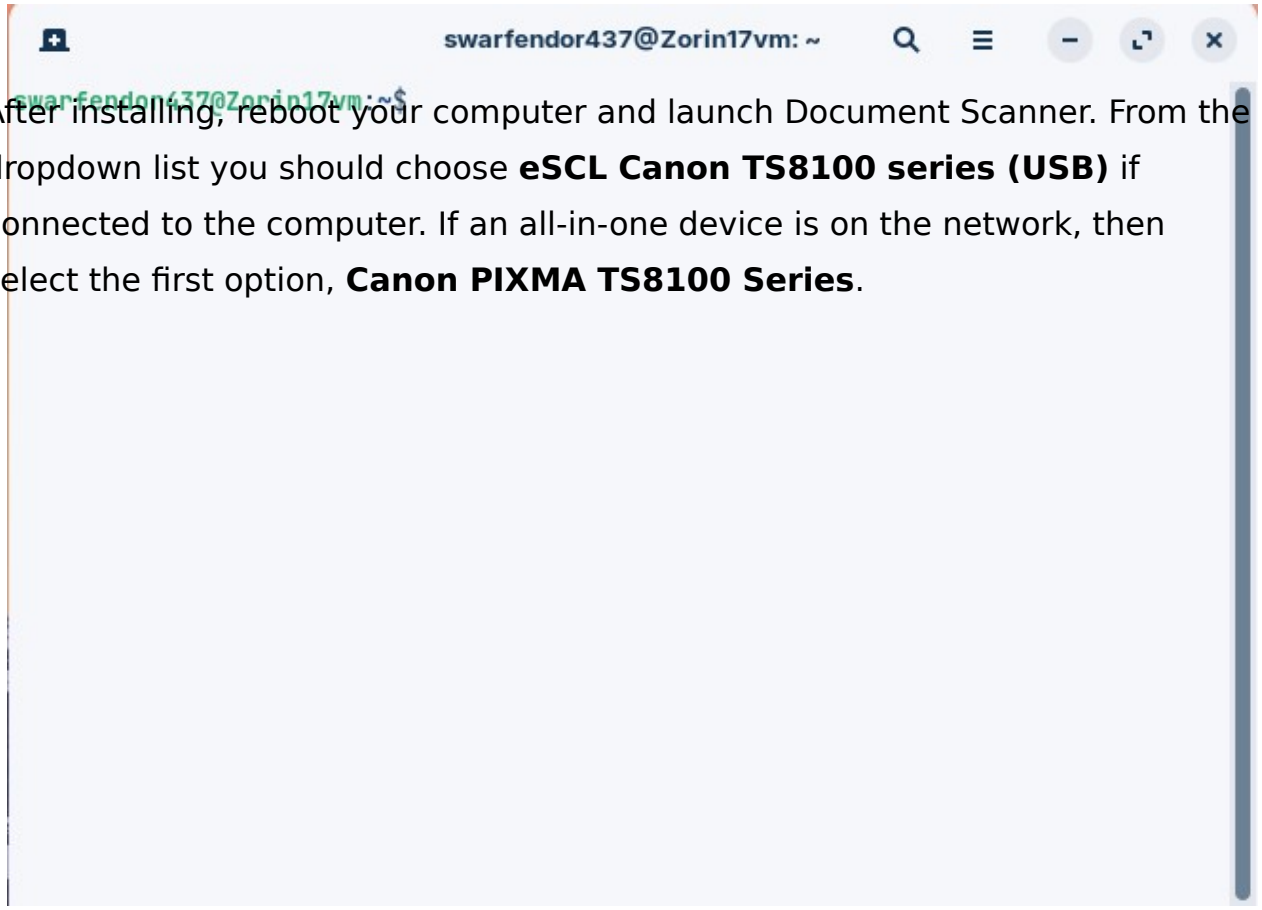
Select **Run anyway** and this window opens, click on **Install** button:


Processes
Resources
File Systems
Process Name
User
% CPU
ID
Memory
Disk read total
Disk writ
at-spi2-registryd zorin 0.00 5153 786.4 kB 104.4 kB
at-spi-bus-launcher zorin 0.00 1351 917.5 kB 59.4 kB
dbus-daemon zorin 0.00 1271 1.8 MB 618.5 kB
dbus-daemon zorin 0.00 1363 524.3 kB 75.8 kB
dconf-service zorin 0.00 1288 655.4 kB 50.2 kB
evolution-addressbook-factory zorin 0.00 5123 9.8 MB 981.0 kB
evolution-alarm-notify zorin 0.00 5324 16.4 MB 536.6 kB
evolution-calendar-factory zorin 0.00 5112 10.0 MB 449.5 kB
evolution-source-registry zorin 0.00 5085 10.0 MB 5.5 MB
flatpak-session-helper zorin 0.00 6239 524.3 kB 179.2 kB
gdm-x-session zorin 0.00 4887 393.2 kB 93.2 kB
gjs zorin 0.00 5151 5.0 MB 17.4 kB
gjs zorin 0.00 5398 5.2 MB 17.4 kB
gjs zorin 0.00 5846 21.4 MB 2.4 MB
gnome-clocks zorin 0.00 5966 19.8 MB 3.3 MB
gnome-keyring-daemon zorin 0.00 1625 1.0 MB 512.0 kB
gnome-session-binary zorin 0.00 4895 1.8 MB 1.8 MB
gnome-session-binary zorin 0.00 5018 3.0 MB 1.1 MB
gnome-session-ctl zorin 0.00 4999 393.2 kB 15.4 kB


Processes
Resources
File Systems
CPU
100 %
80 %
60 %
40 %
20 %
0 %
1 min
50 secs
40 secs
30 secs
20 secs
10 secs
CPU1 8.0%
CPU2 9.9%
Memory and Swap
Memory
1.2 GB (29.0%) of 4.1 GB
Cache 1.3 GB
Swap
0 bytes (0.0%) of 2.8 GB
Network
1.0 KiB/s
819 bytes/
614 bytes/
409 bytes/
204 bytes/
0 bytes/s
Receiving 0 bytes/s
Total Received 403.0 KiB
Sending 0 bytes/s
Total Sent 54.1 KiB

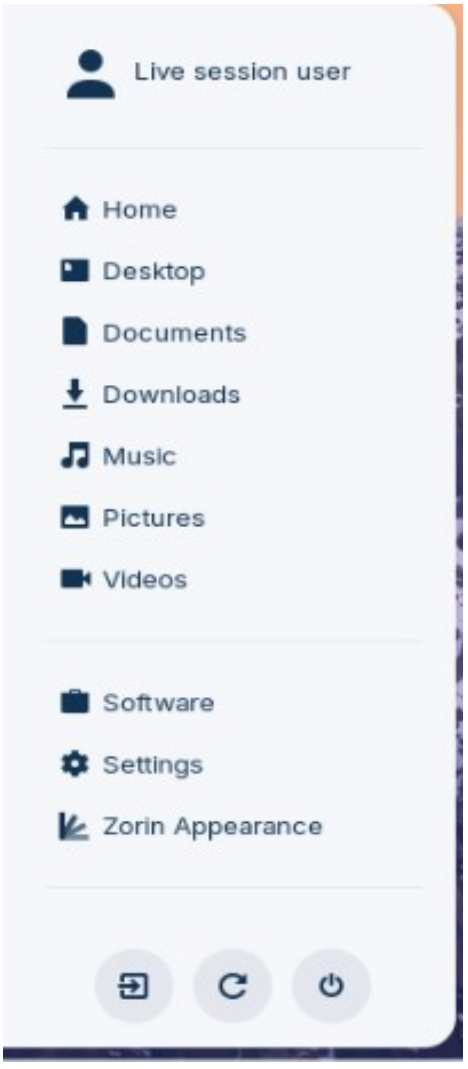
You will then be presented with the Authorisation window, which, depending on how you install Zorin will be your password if you are an Administrator, or the Administrator account password if you are a Standard user.



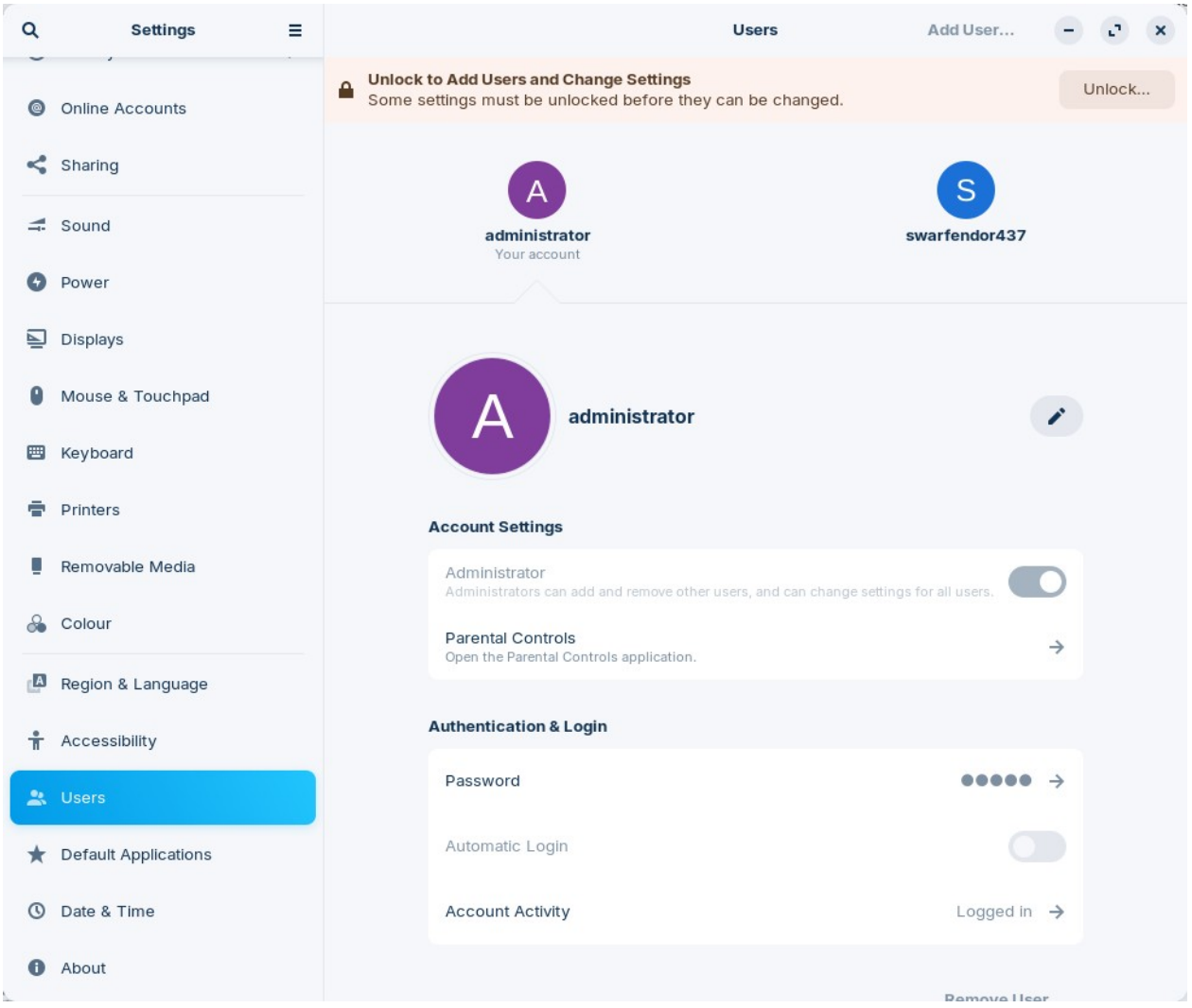


After installing, reboot your computer and launch Document Scanner. From the dropdown list you should choose **eSCL Canon TS8100 series (USB)** if connected to the computer. If an all-in-one device is on the network, then select the first option, **Canon PIXMA TS8100 Series**.

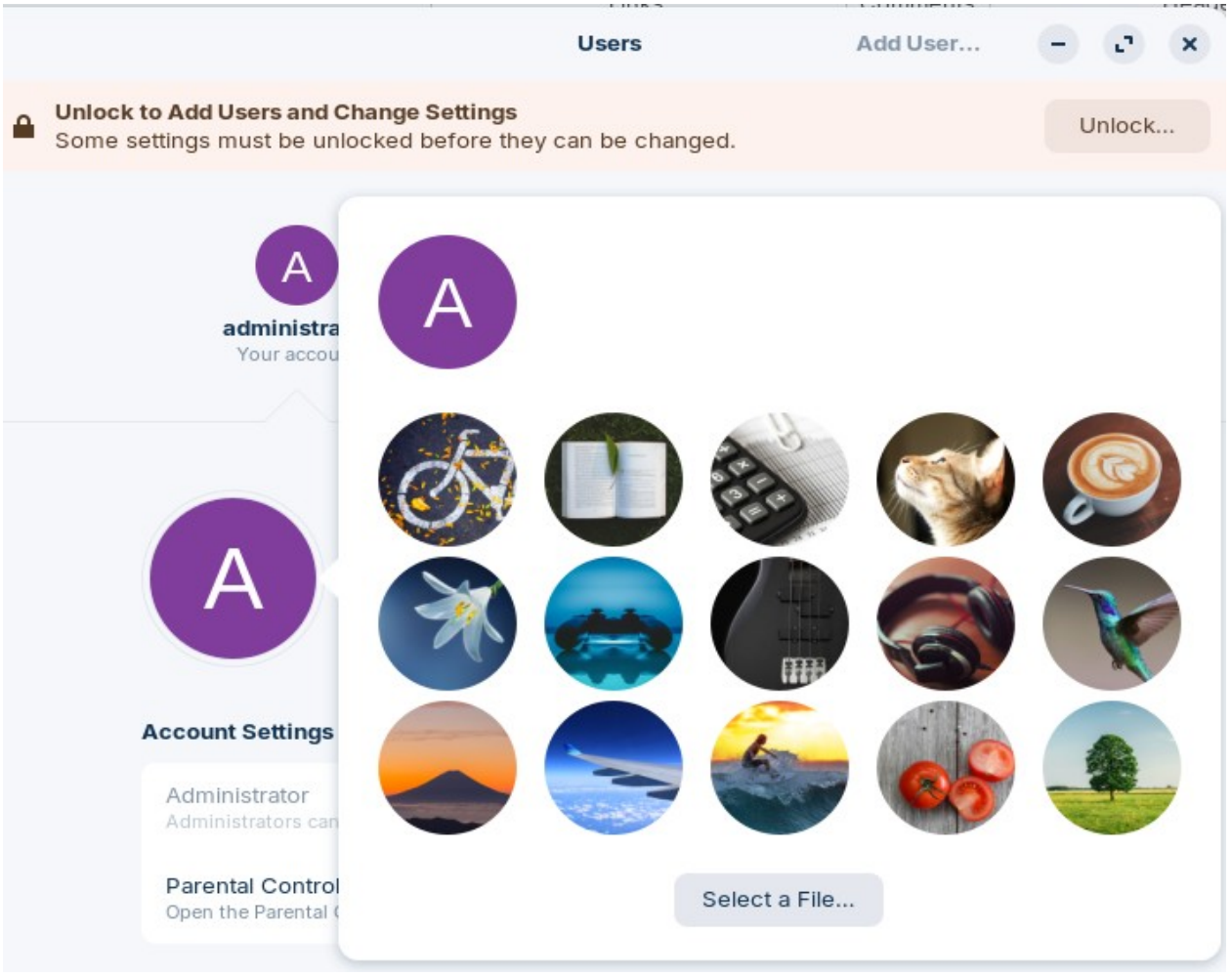
Selecting the drop-down arrow in the box next to the button with **Scan** on it, choose the method of scanning you need to deploy:



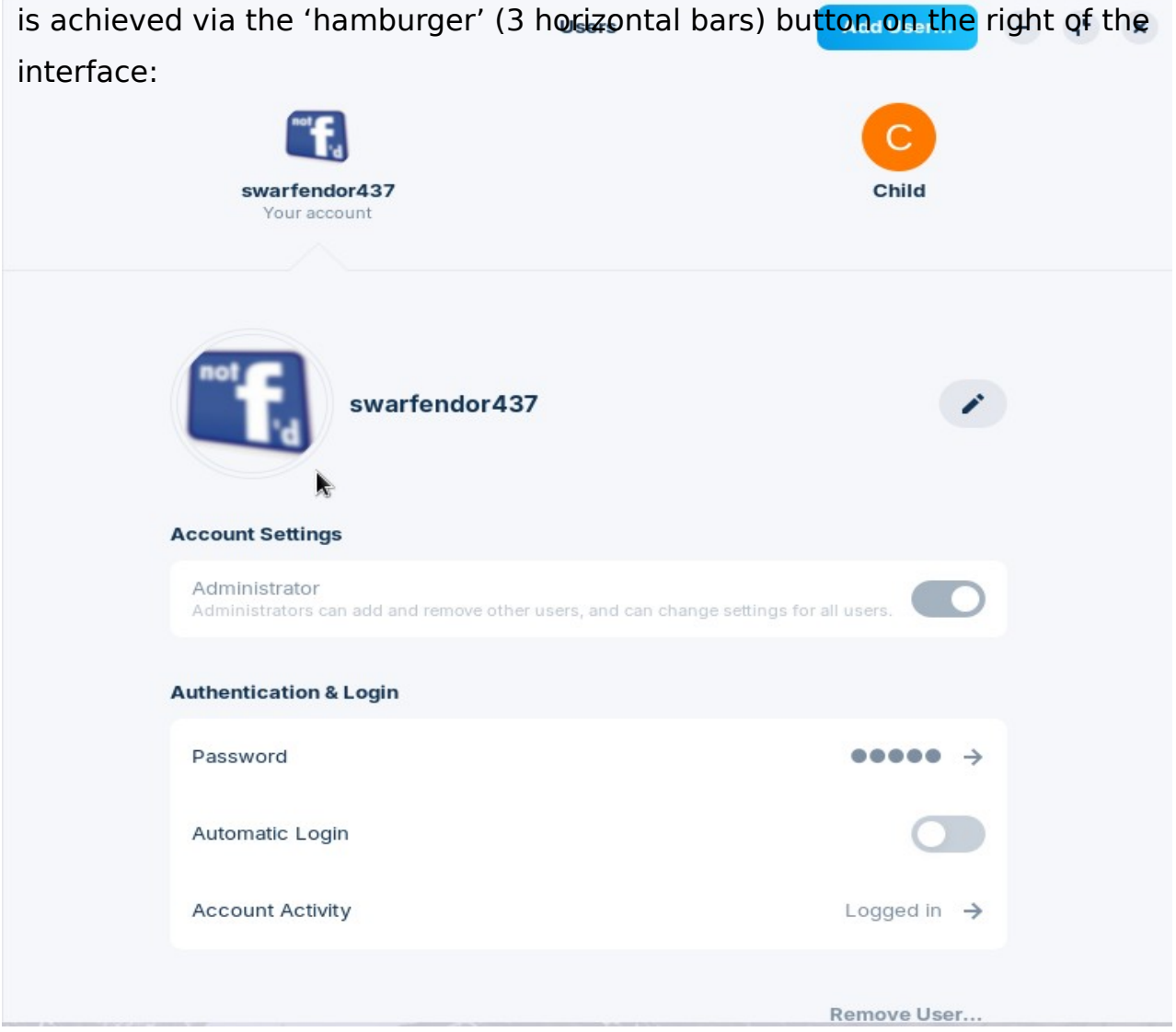
Selecting **Preferences** opens up this window:



Once you are happy with your choices, select **Scan**.


Users
Add User...
Unlock to Add Users and Change Settings
Some settings must be unlocked before they can be changed.
Unlock...
A
administra
Your accou
A
A
Account Settings
Administrator
Administrators can
Parental Control
Open the Parental
Select a File...

Other options in regard to what you want to do with your scanned documents is achieved via the ‘hamburger’ (3 horizontal bars) button on the right of the interface:

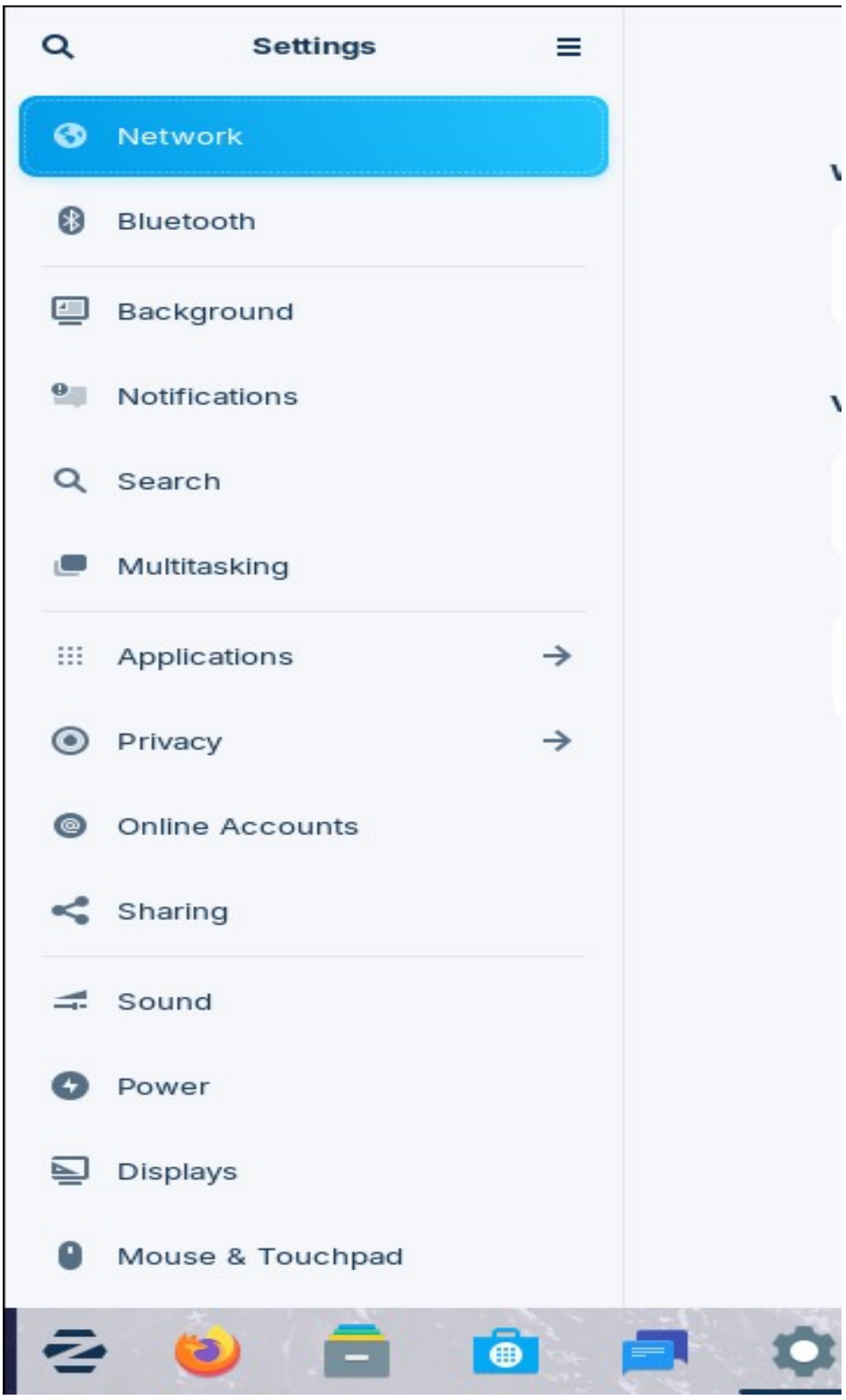


Document Viewer - Evince by any other name! Supports documents in PDF, PS, EPS, XPS, DjVu, TIFF, DVI (with SyncTex), and Comic Books archives (CBR, CBT, CBZ, CB7).

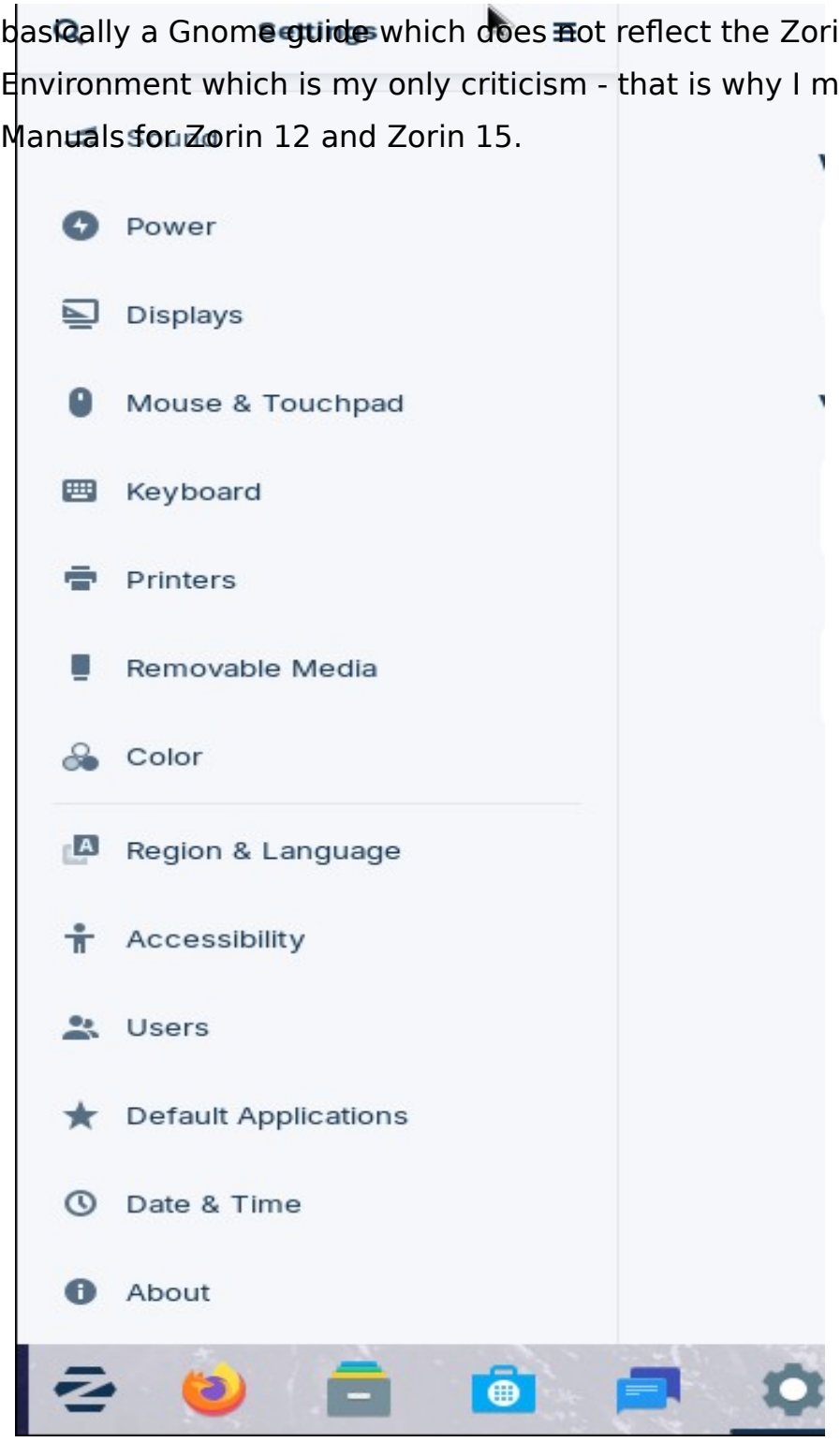
2 vii. b. Utilities (bottom)

Here we have **Fonts** (font viewer), **Help**, **Logs**, **Password and Keys**, **System Monitor** (Task Manager), **Terminal** (Command prompt).

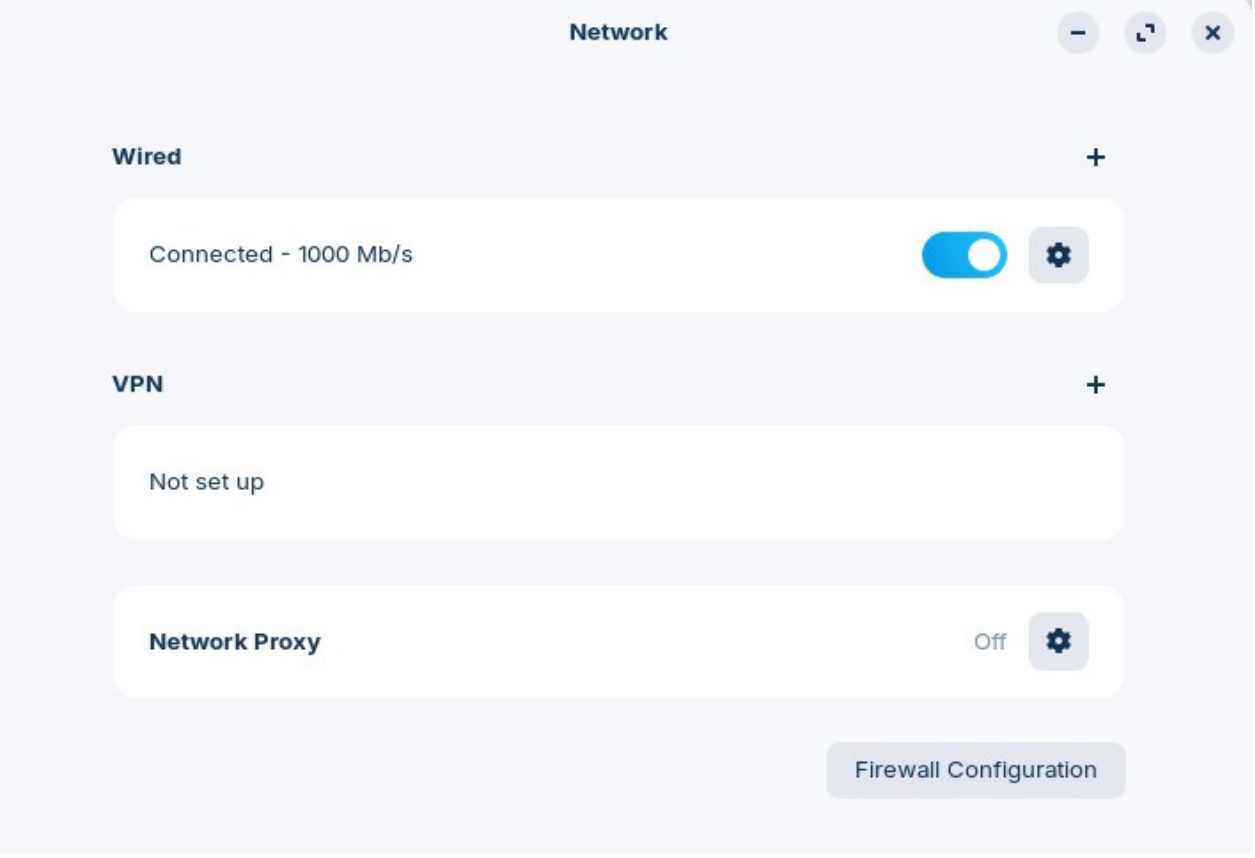
Fonts (Font viewer)



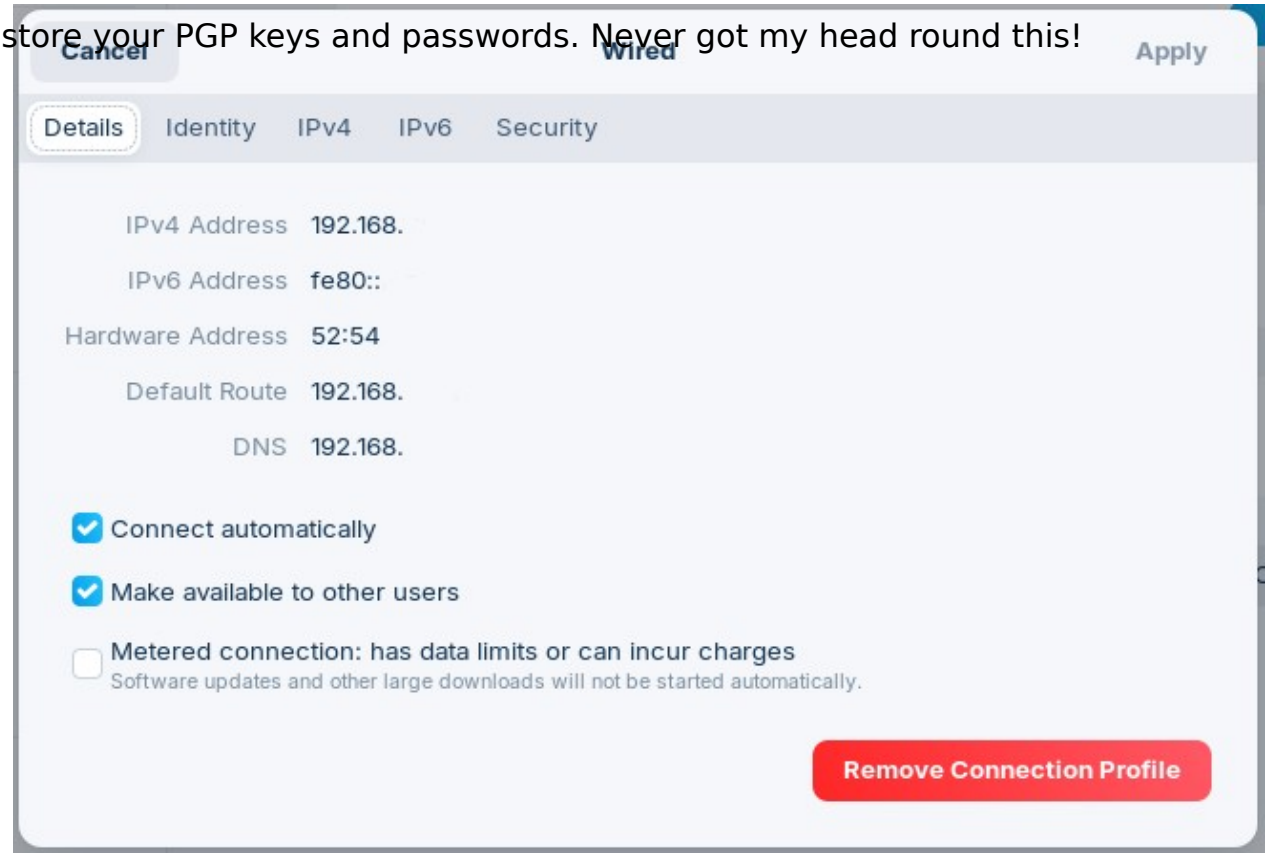
Help - This launches an interactive help guide. My only criticism is that it is basically a Gnome guide which does not reflect the Zorin Desktop Environment which is my only criticism - that is why I made the Unofficial Manuals for Zorin 12 and Zorin 15.

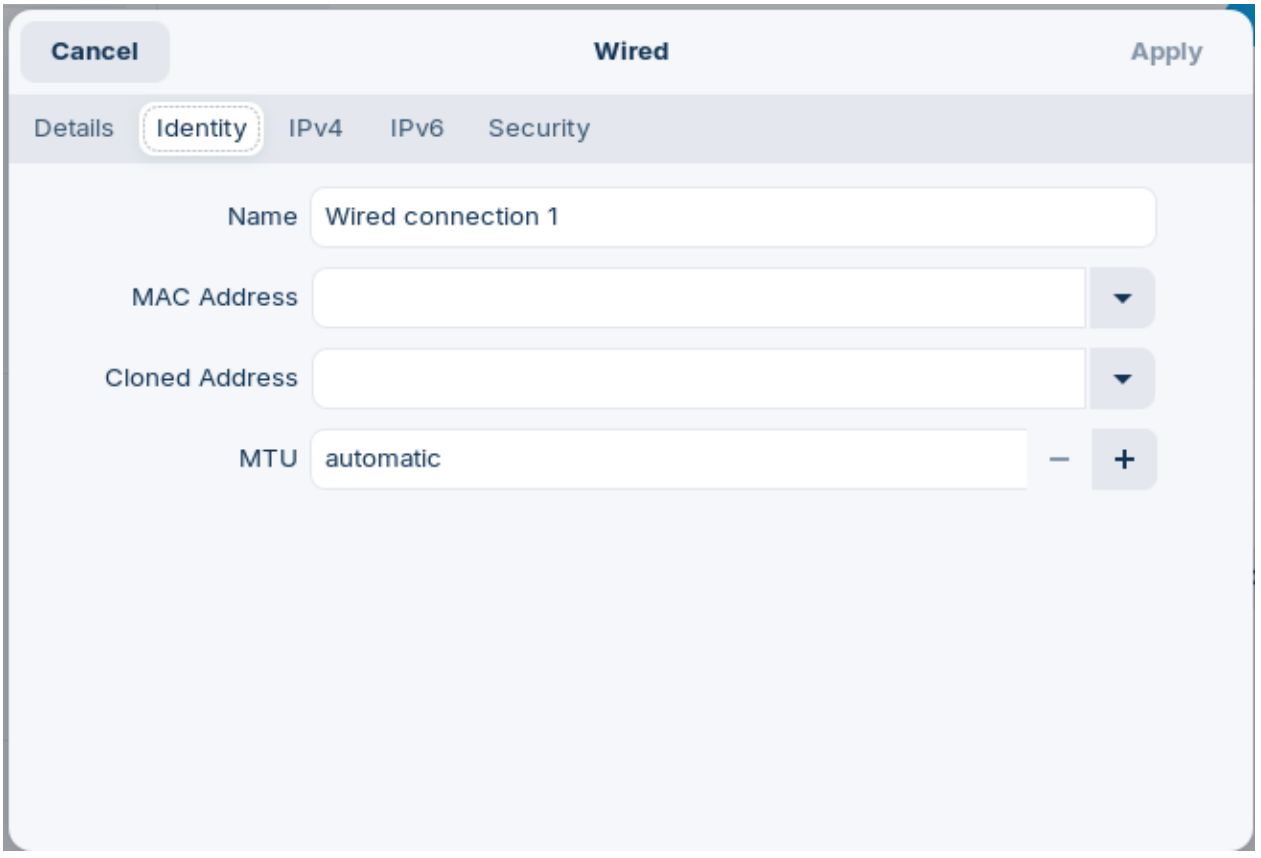


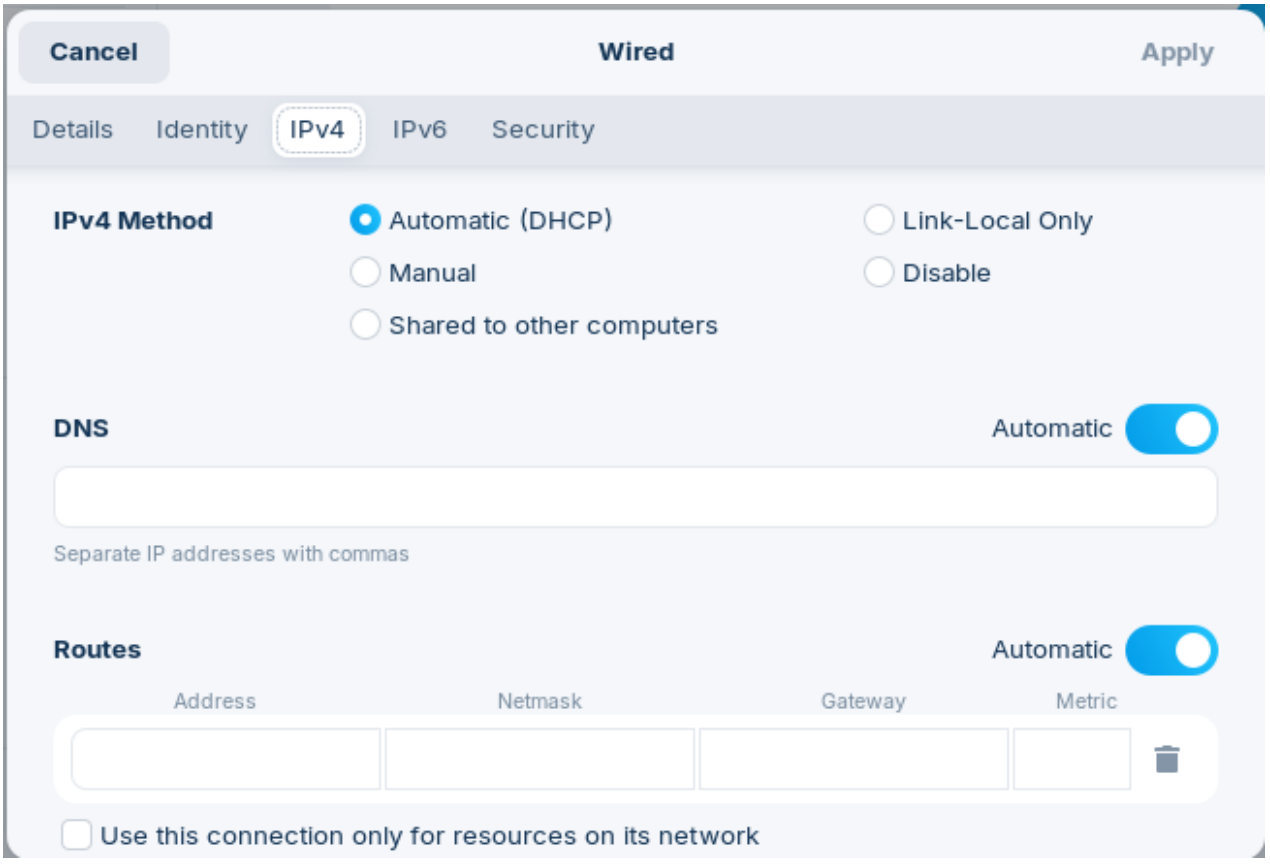
Logs - a useful utility, telling you of any errors that might be in the system. Here is a screenshot from the VM I created in order to create this Manual:

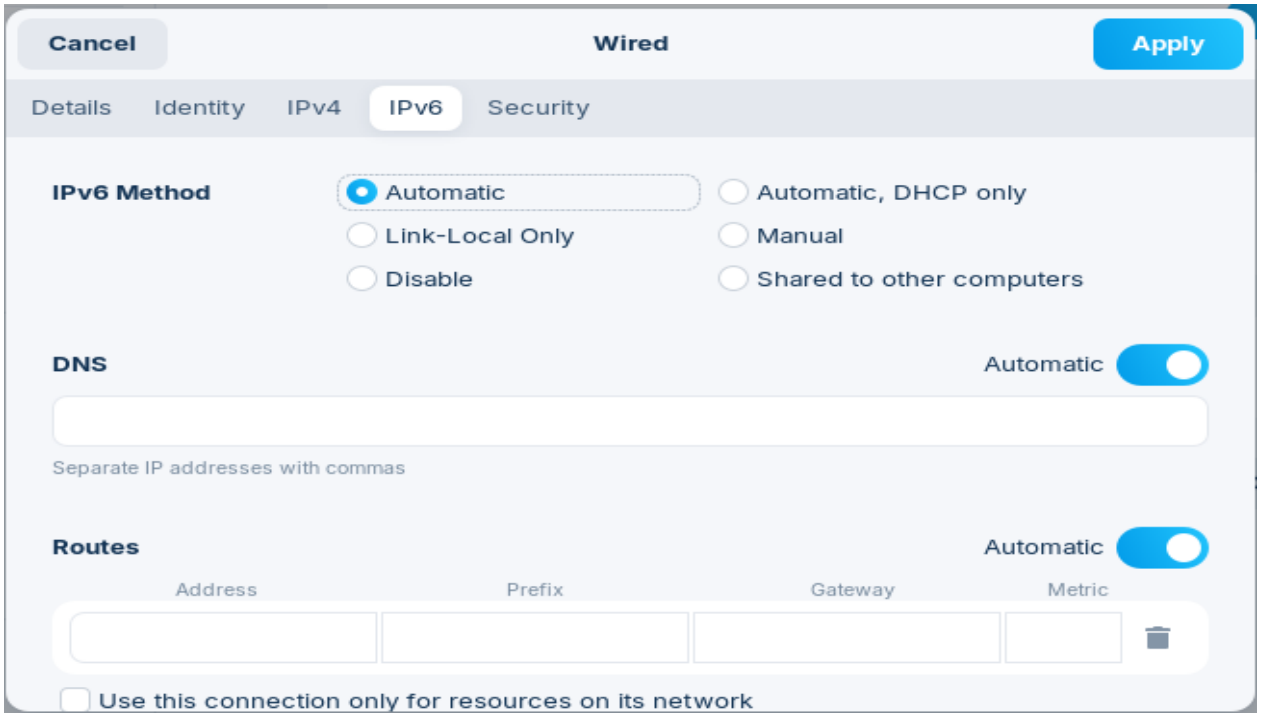


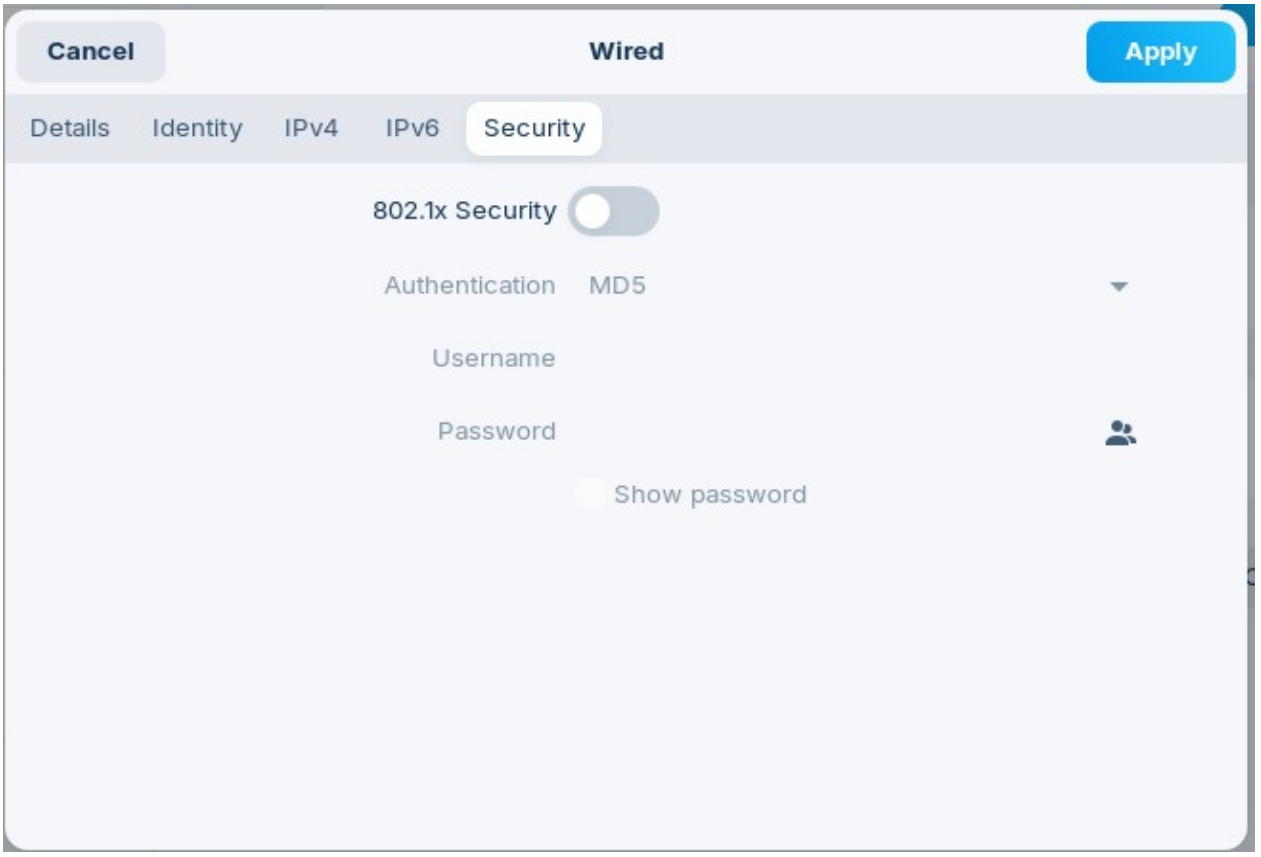
Passwords and Keys - Seahorse by any other name! This utility is to help store your PGP keys and passwords. Never got my head round this!



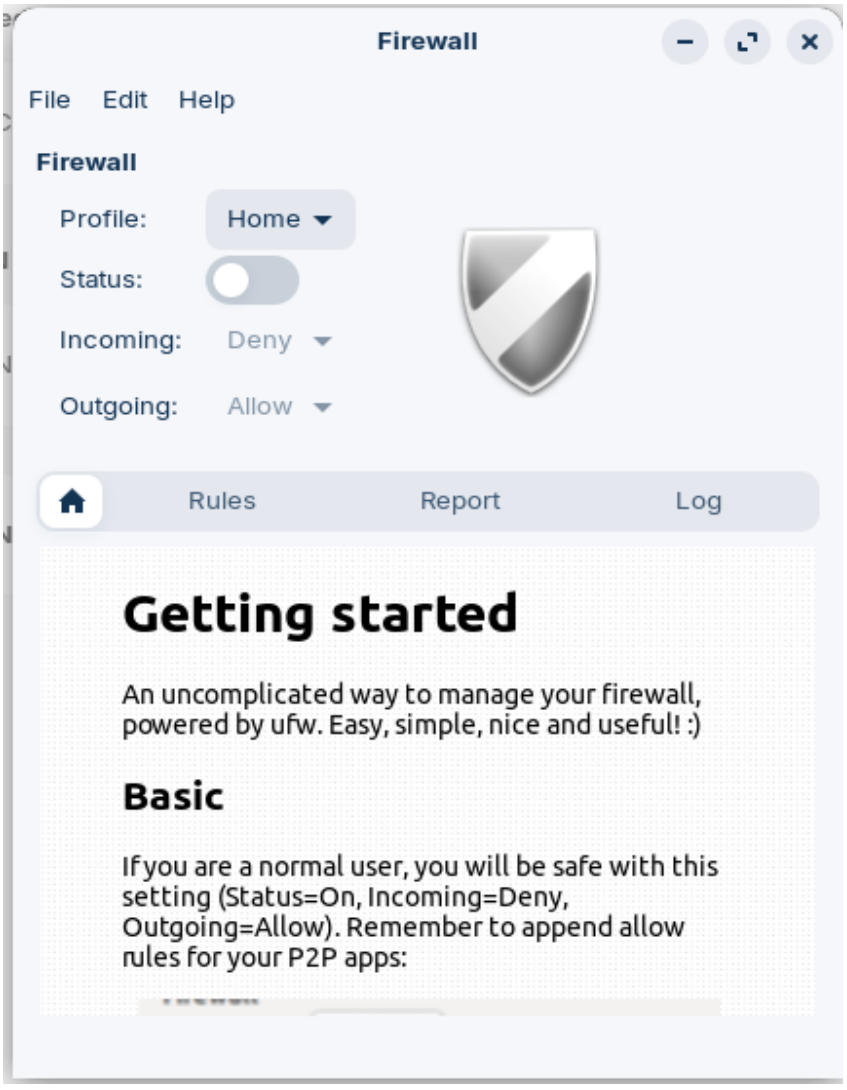



Cancel
Wired
Apply
Details
Identity
IPv4
IPv6
Security
IPv4 Method
Automatic (DHCP)
Link-Local Only
Manual
Disable
Shared to other computers
DNS
Automatic
Separate IP addresses with commas
Routes
Automatic
Address
Netmask
Gateway
Metric
Use this connection only for resources on its network


Cancel
Wired
Apply
Details
Identity
IPv4
IPv6
Security
IPv6 Method
Automatic
Automatic, DHCP only
Link-Local Only
Manual
Disable
Shared to other computers
DNS
Automatic
Separate IP addresses with commas
Routes
Automatic
Address
Prefix
Gateway
Metric
Use this connection only for resources on its network

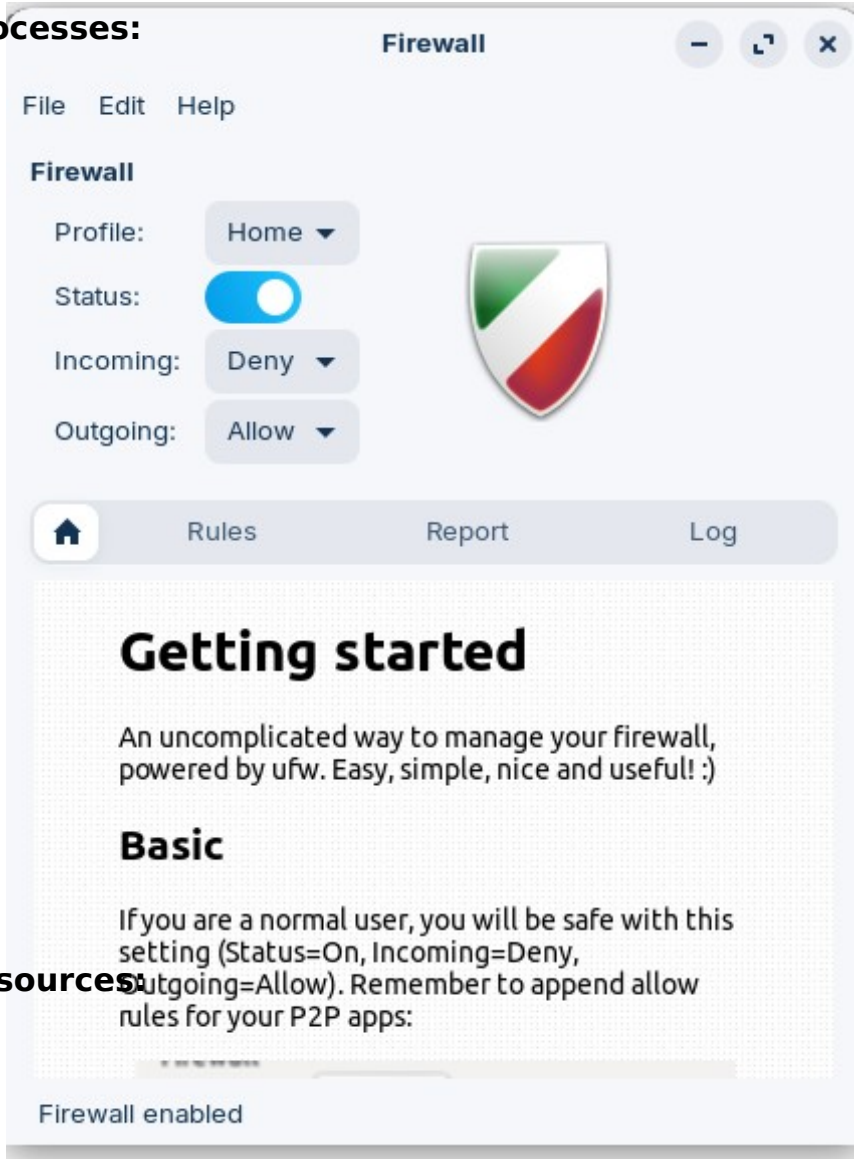

Cancel
Wired
Apply
Details
Identity
IPv4
IPv6
Security
802.1x Security
Authentication
MD5
Username
Password
Show password

Network Proxy
Automatic
Manual
Disabled


Firewall
File Edit Help
Firewall
Profile: Home
Status:
Incoming: Deny
Outgoing: Allow
Rules
Report
Log
Getting started
An uncomplicated way to manage your firewall, powered by ufw. Easy, simple, nice and useful! :)
Basic
If you are a normal user, you will be safe with this setting (Status=On, Incoming=Deny, Outgoing=Allow). Remember to append allow rules for your P2P apps:

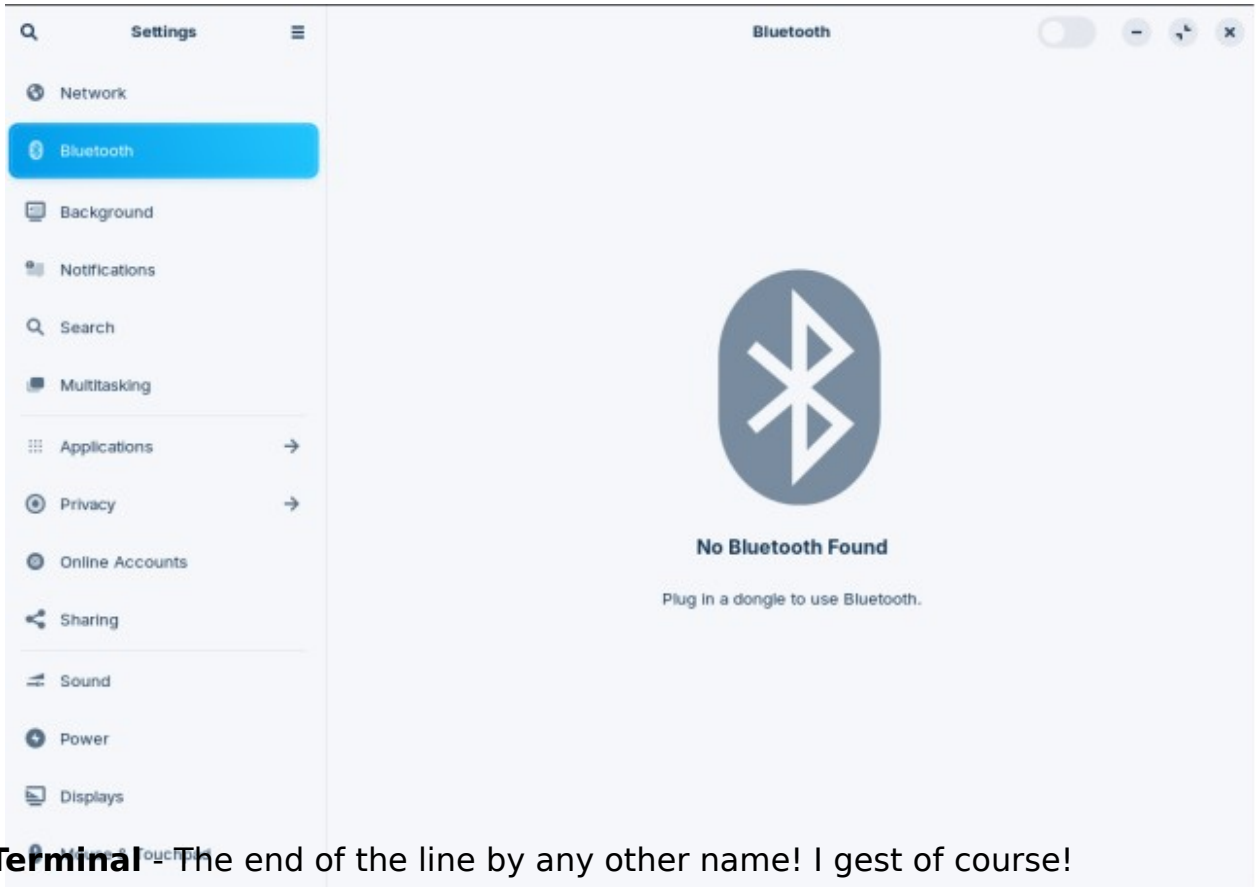
System Monitor - this is the GNU/Linux equivalent of Task Manager in that other OS!:

Processes:

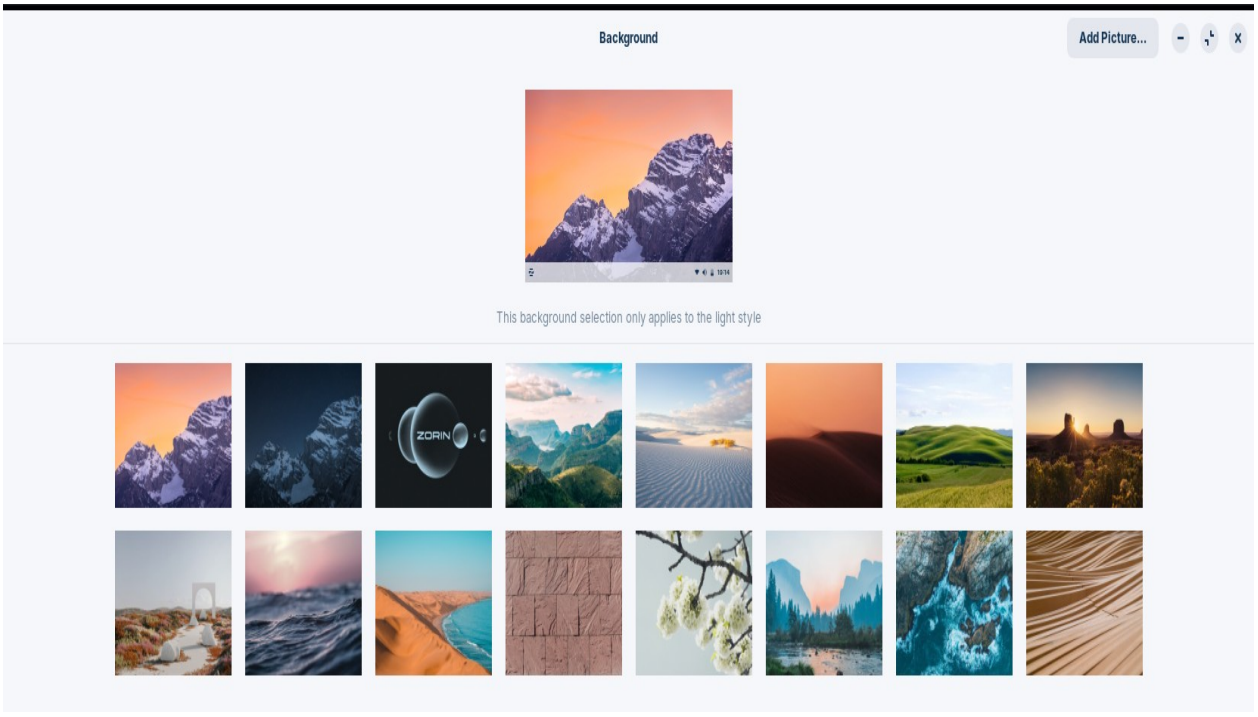

Firewall
File Edit Help
Firewall
Profile: Home
Status:
Incoming: Deny
Outgoing: Allow
Rules
Report
Log
Getting started
An uncomplicated way to manage your firewall, powered by ufw. Easy, simple, nice and useful! :)
Basic
If you are a normal user, you will be safe with this setting (Status=On, Incoming=Deny, Outgoing=Allow). Remember to append allow rules for your P2P apps:
Firewall enabled

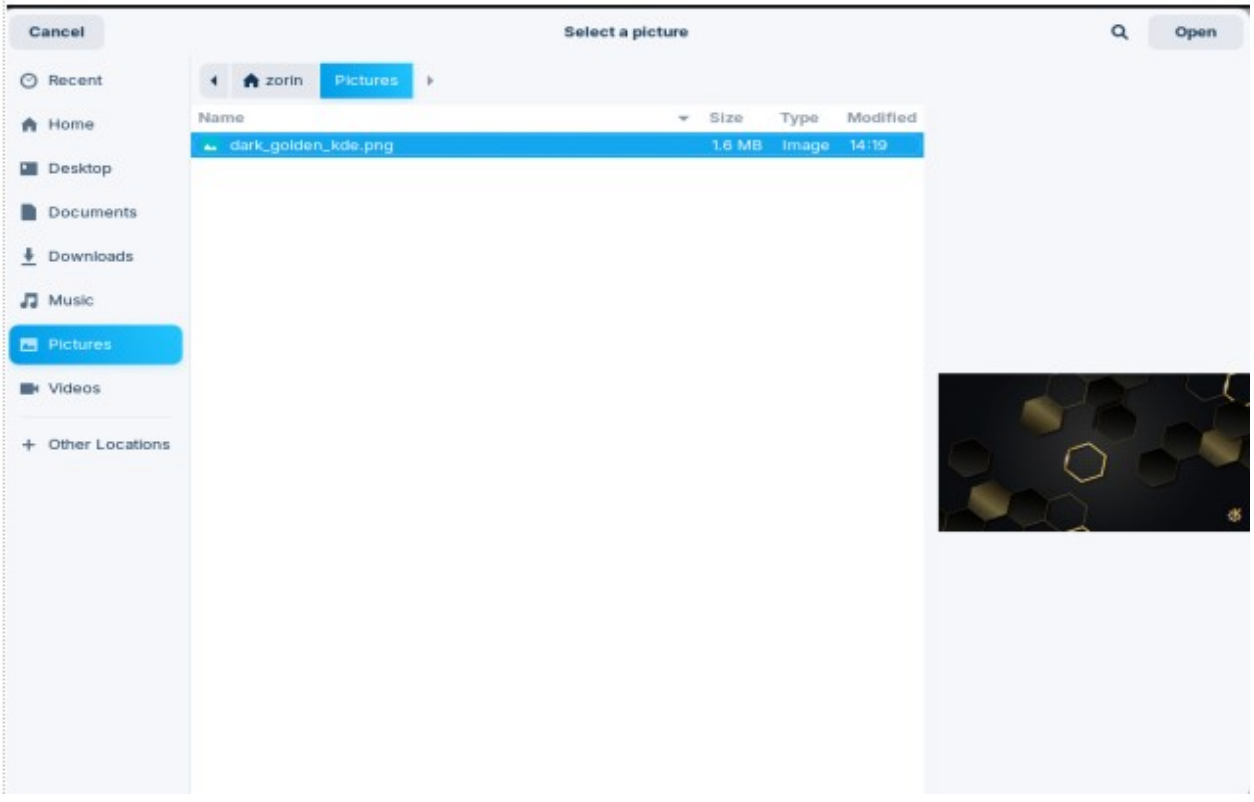
Resources:

File Systems:



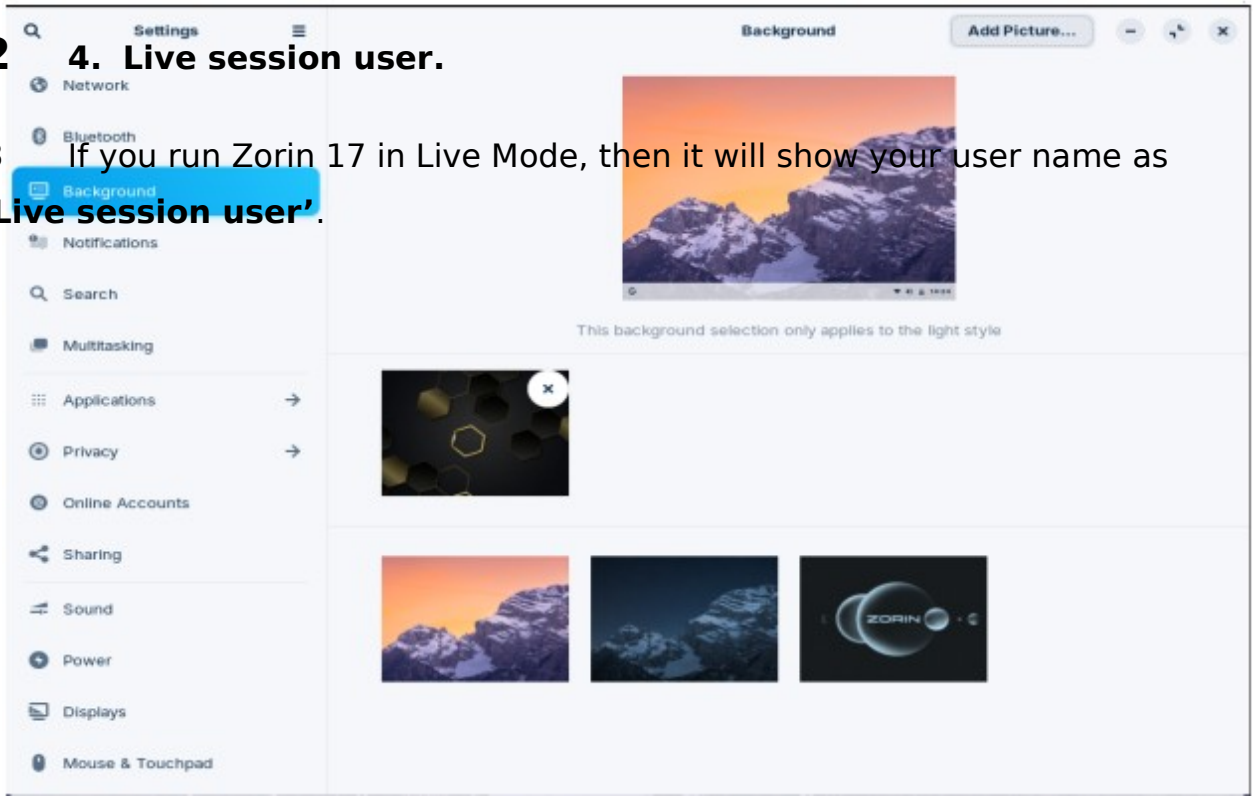
Terminal - The end of the line by any other name! I gest of course!

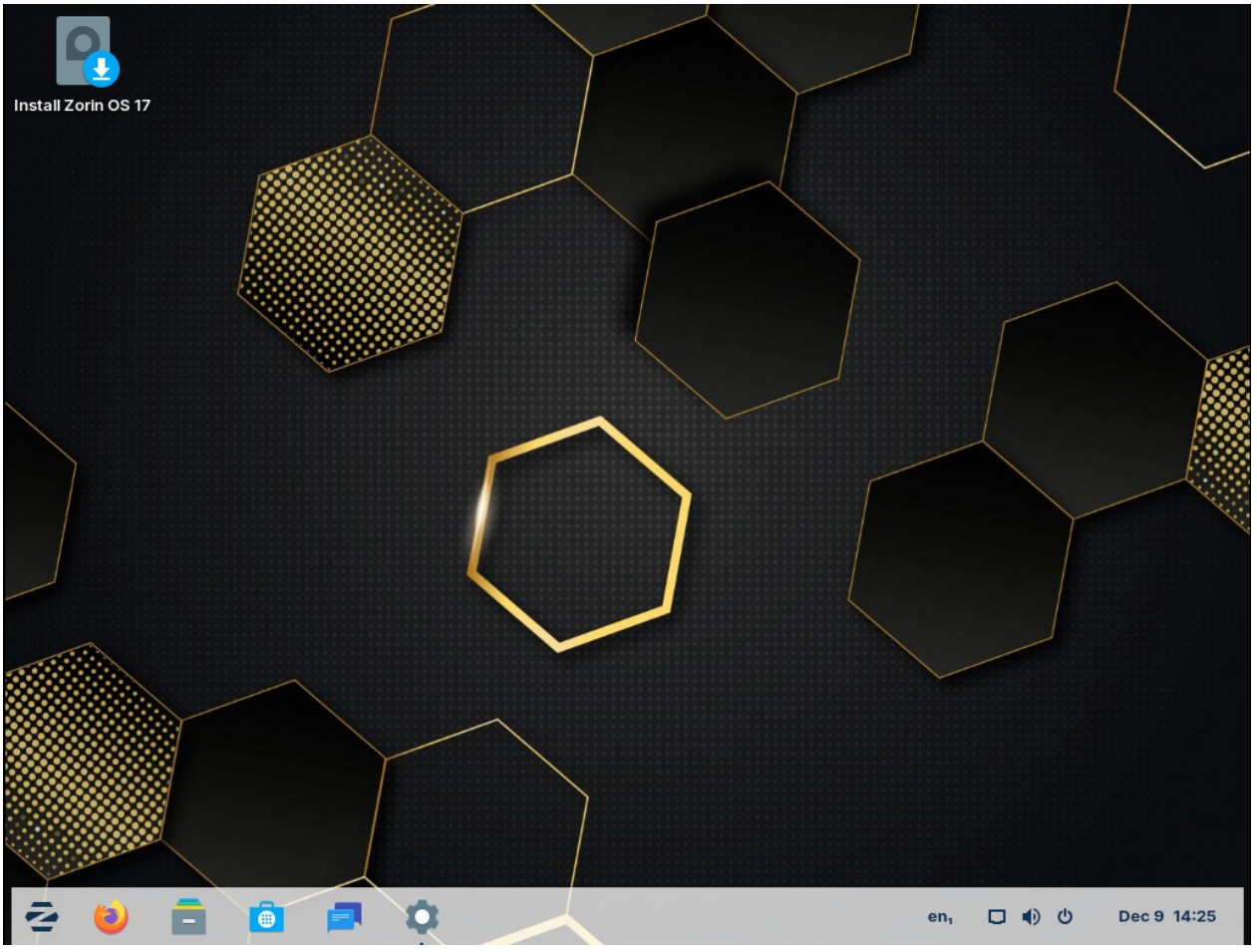

Background
Add Picture...
This background selection only applies to the light style


Cancel
Select a picture
Open
Recent
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Other Locations
zorin
Pictures
Name
Size
Type
Modified
dark_golden_kde.png
1.6 MB
Image
14:19

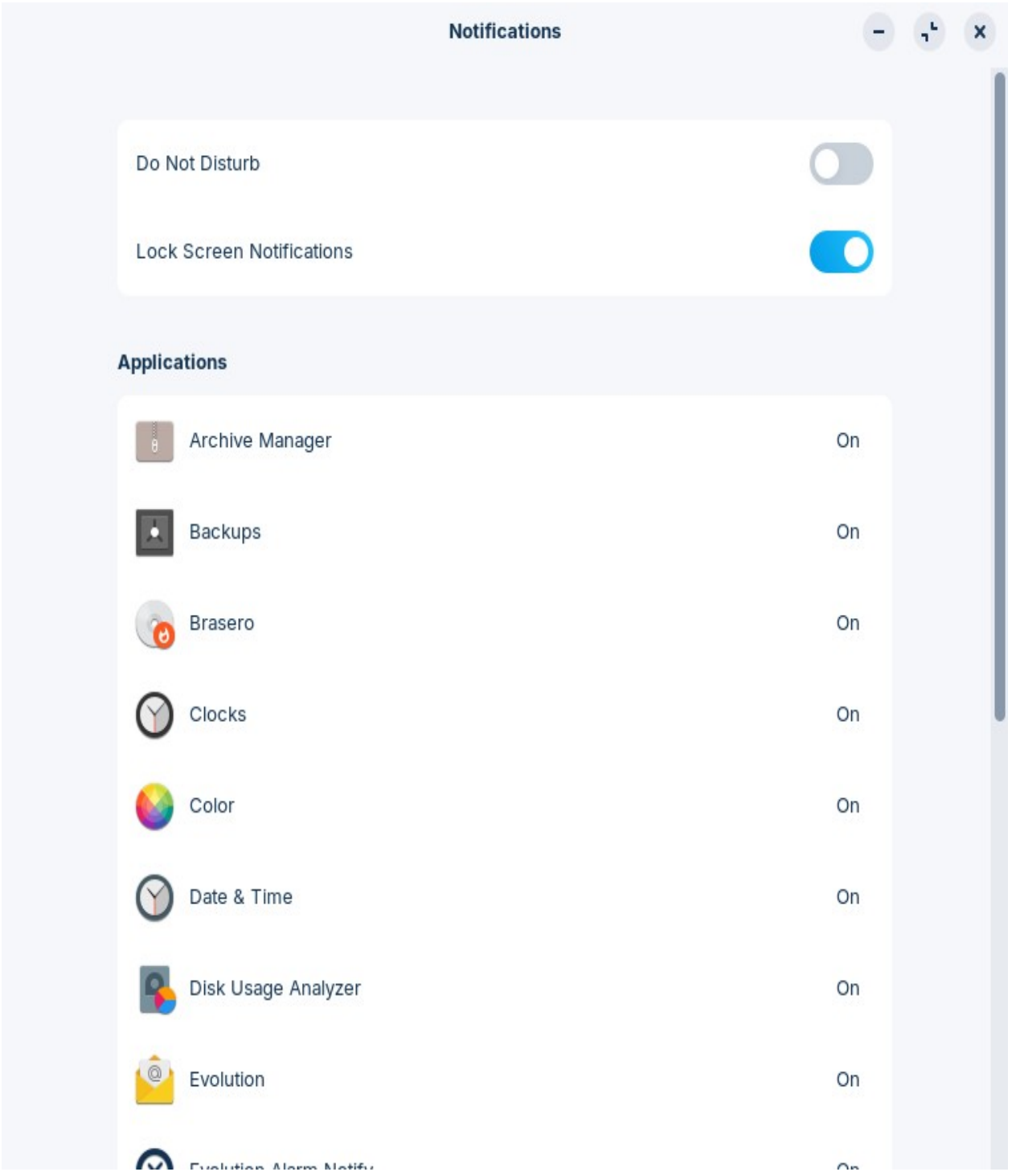
2 **4. Live session user.**

3 If you run Zorin 17 in Live Mode, then it will show your user name as ‘**Live session user’**.

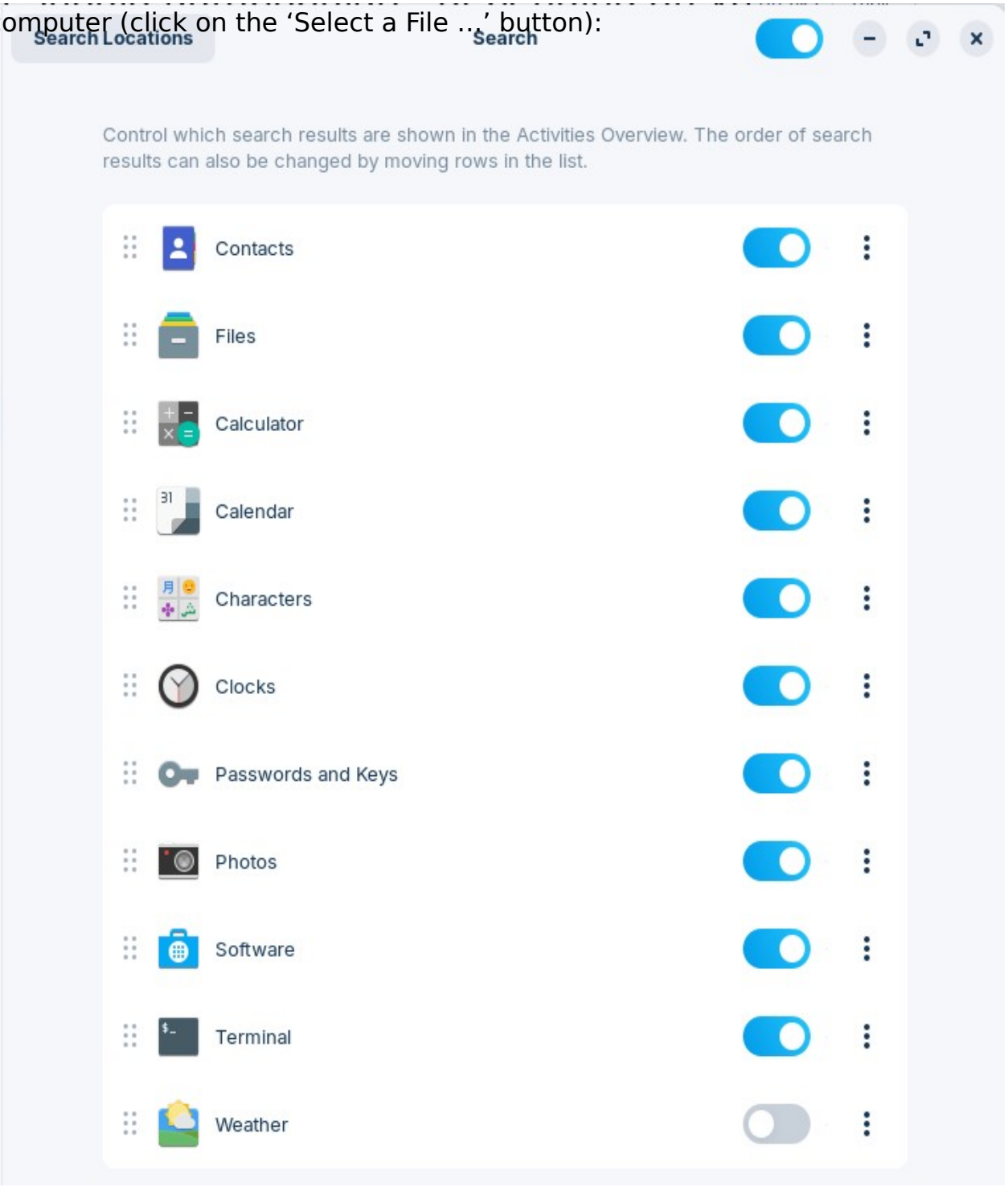




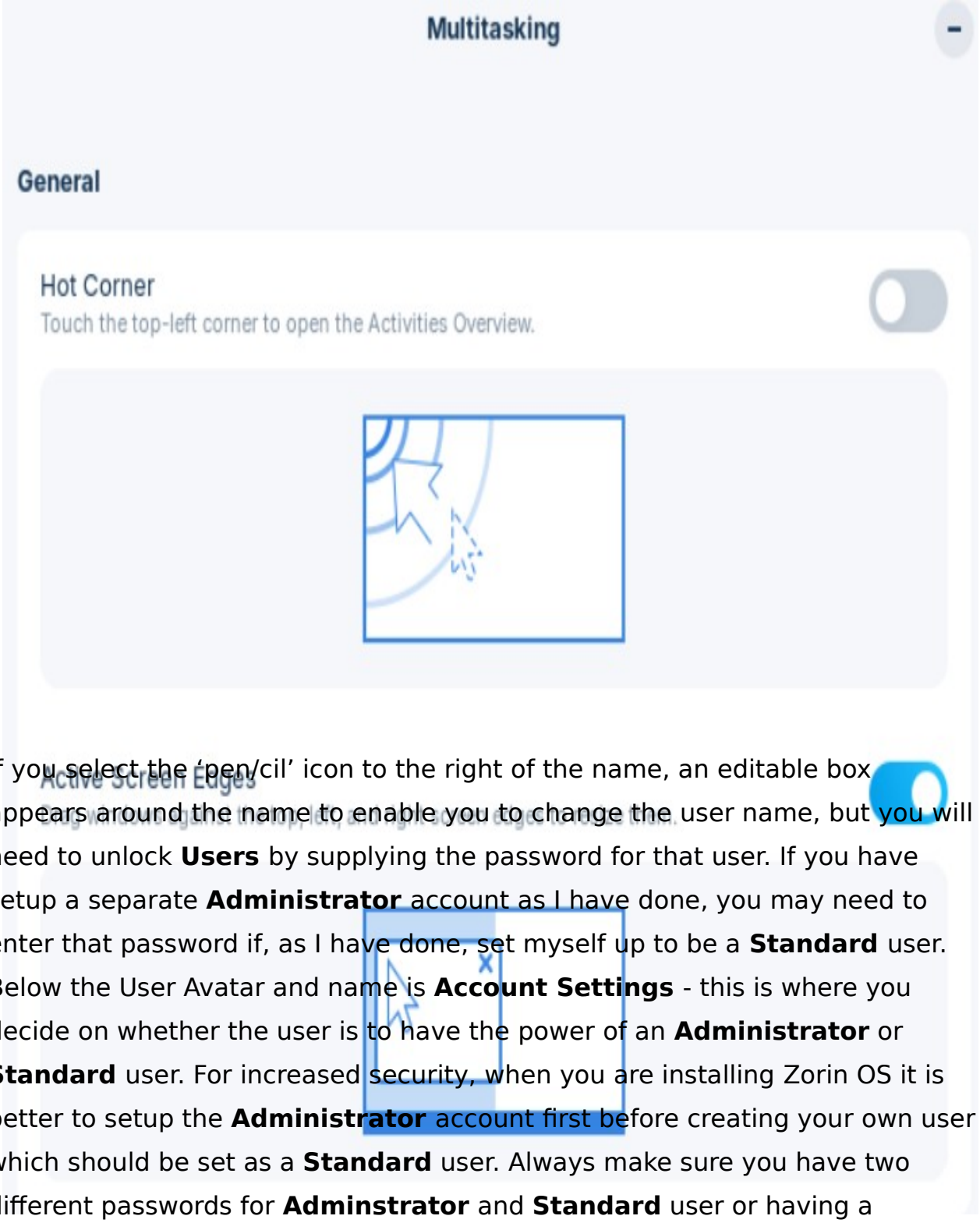
If you left click the **User** part of the menu, this opens up the **Users** section of **Settings**. In live mode it will show no users found, but on an installed version it shows all the Users of the system:



If you click on the account’s avatar, you have an option to change the one automatically created, which shows the first letter of the User in a circle to something else, either ones supplied by Zorin, or use of a file from you computer (click on the ‘Select a File …’ button):

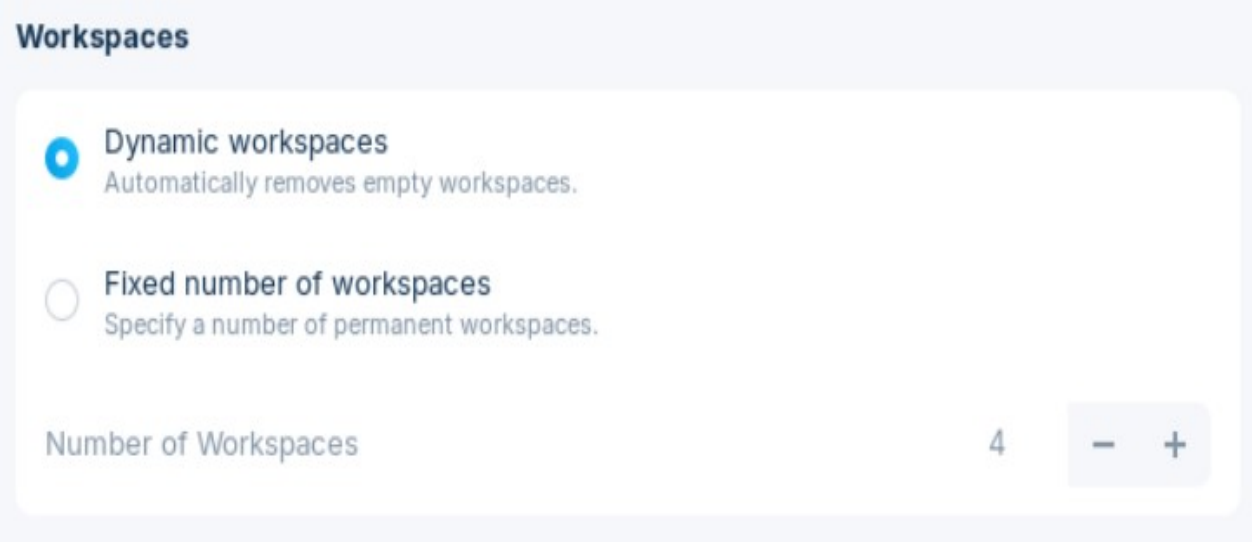


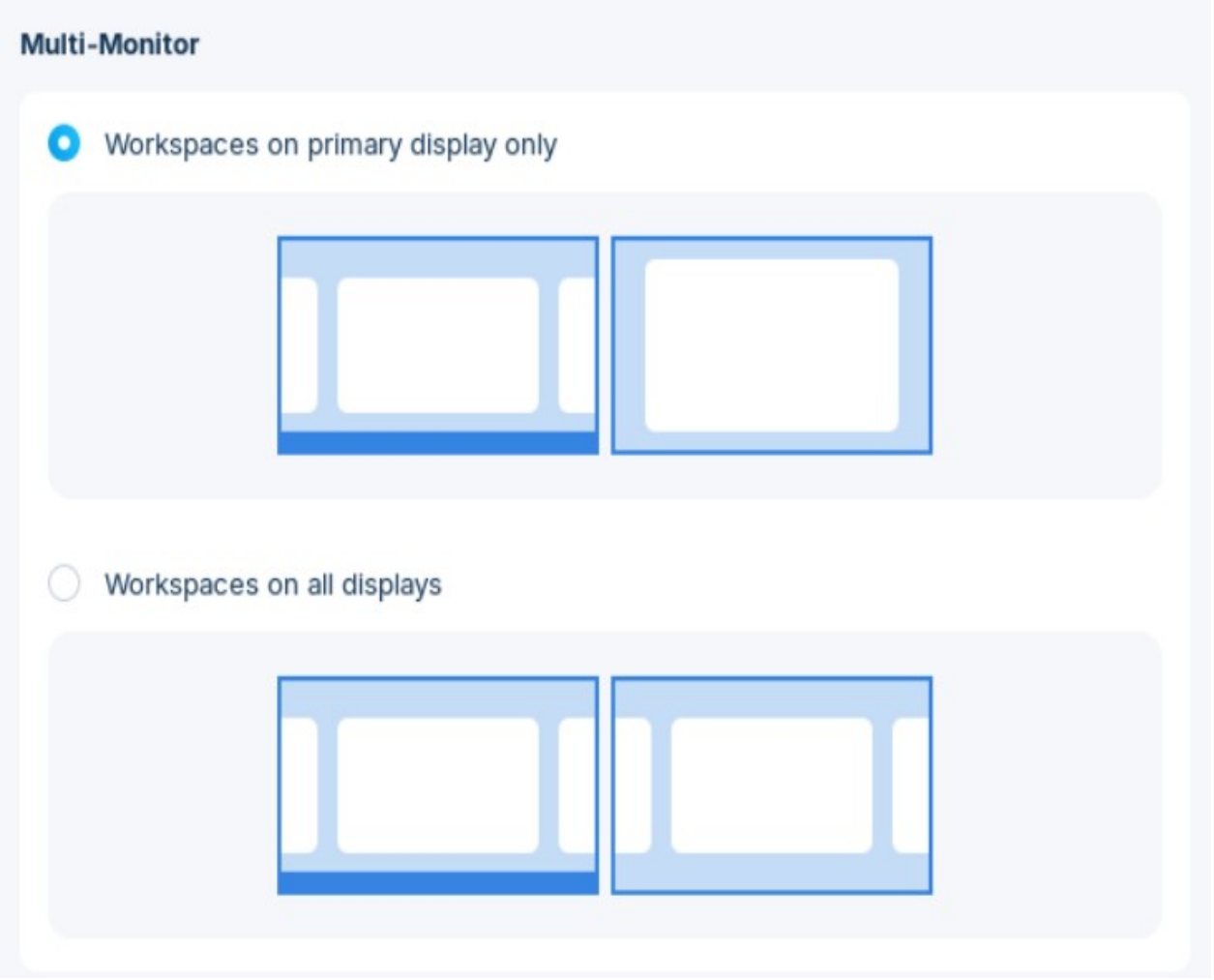
Here’s mine:



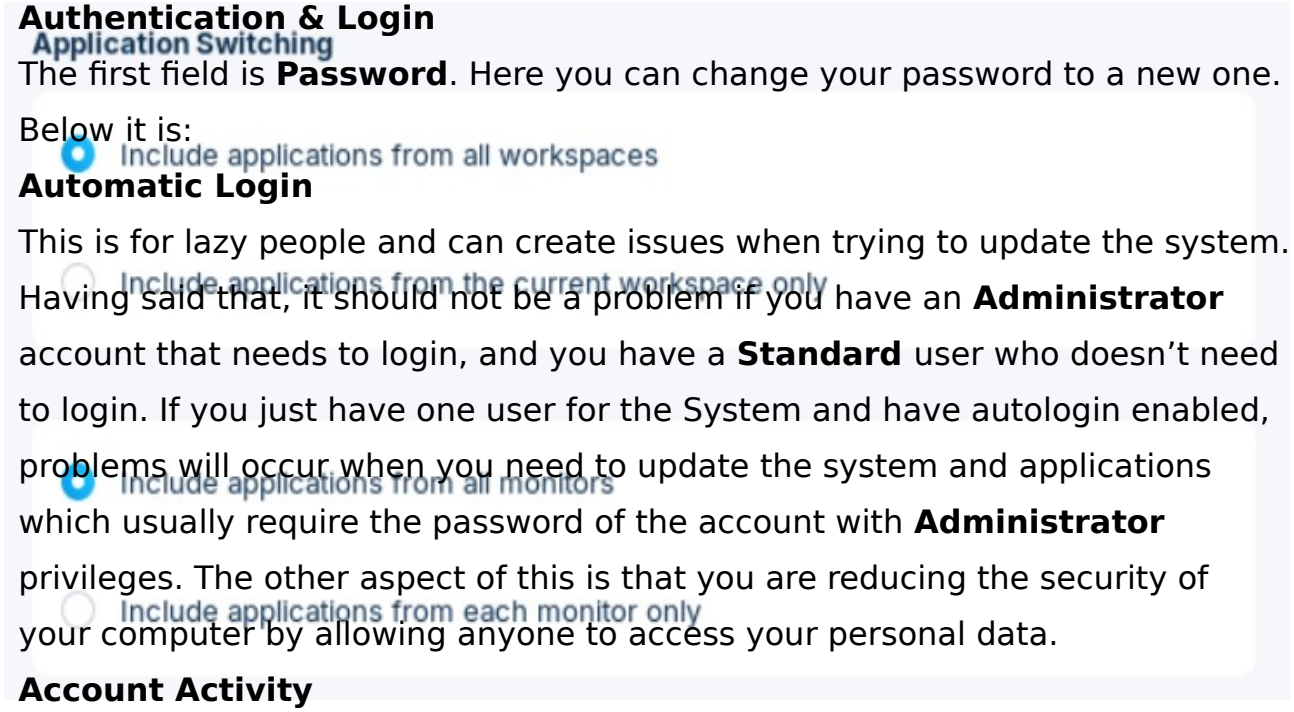
If you select the ‘pen/cil’ icon to the right of the name, an editable box appears around the name to enable you to change the user name, but you will need to unlock **Users** by supplying the password for that user. If you have setup a separate **Administrator** account as I have done, you may need to enter that password if, as I have done, set myself up to be a **Standard** user. Below the User Avatar and name is **Account Settings** - this is where you decide on whether the user is to have the power of an **Administrator** or **Standard** user. For increased security, when you are installing Zorin OS it is better to setup the **Administrator** account first before creating your own user which should be set as a **Standard** user. Always make sure you have two different passwords for **Adminstrator** and **Standard** user or having a

separae administrator account is pointless!





Below the account user’s status is:


Application Switching
Include applications from all workspaces
Include applications from the current workspace only
Include applications from all monitors
Include applications from each monitor only

Authentication & Login

The first field is **Password**. Here you can change your password to a new one. Below it is:

Automatic Login

This is for lazy people and can create issues when trying to update the system. Having said that, it should not be a problem if you have an **Administrator** account that needs to login, and you have a **Standard** user who doesn’t need to login. If you just have one user for the System and have autologin enabled, problems will occur when you need to update the system and applications which usually require the password of the account with **Administrator** privileges. The other aspect of this is that you are reducing the security of your computer by allowing anyone to access your personal data.

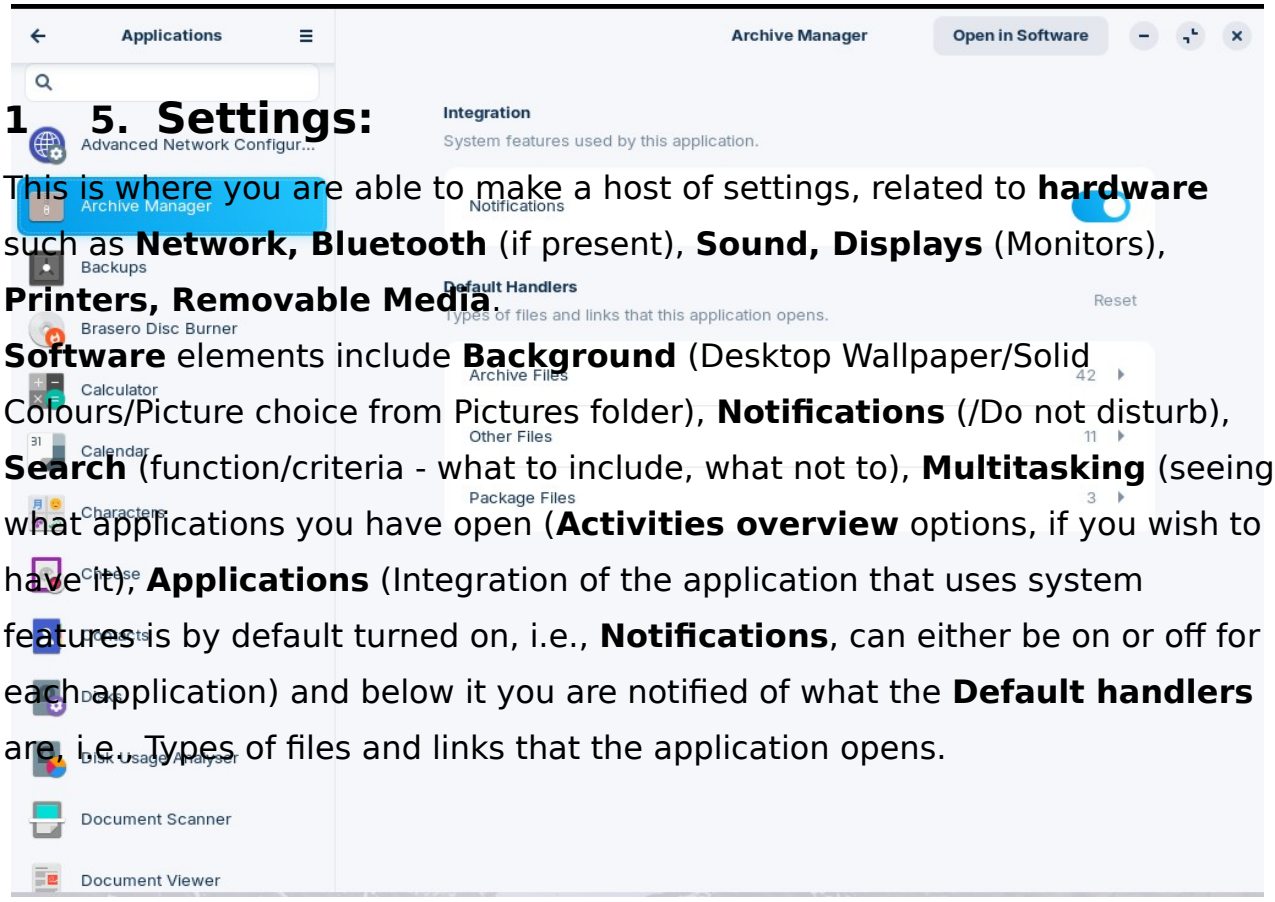
Account Activity

This let’s you see who is logged in. Left clicking **Account Activity** shows a log of account activity, showing Dates and Times when a Session Started and when a Session Ended.

Remove User

To be used with caution - you don’t want to remove someone in error!

Software - This has already been covered (see Page 26)



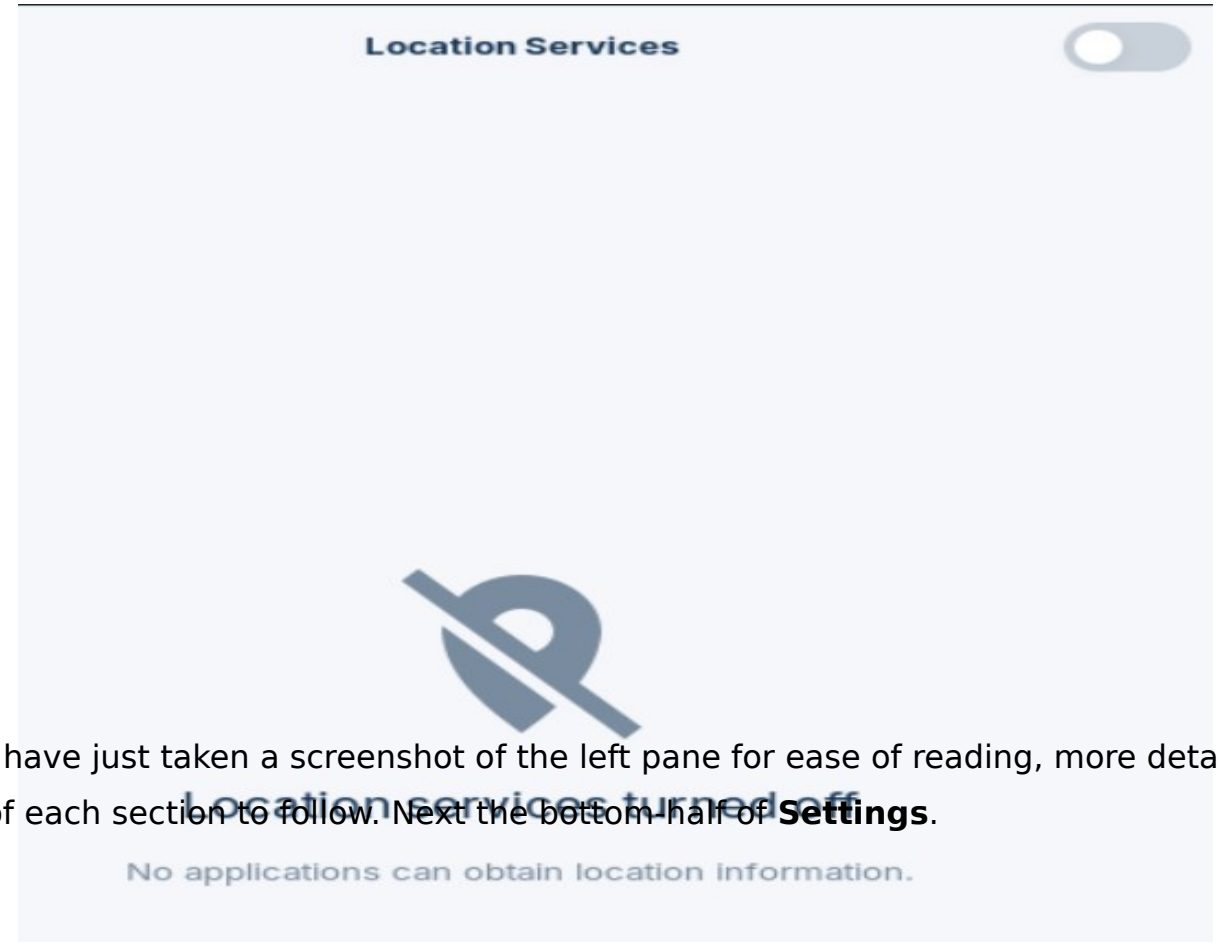
15. Settings:

This is where you are able to make a host of settings, related to **hardware** such as **Network, Bluetooth** (if present), **Sound, Displays** (Monitors), **Printers, Removable Media**.

Software elements include **Background** (Desktop Wallpaper/Solid Colours/Picture choice from Pictures folder), **Notifications** (/Do not disturb), **Search** (function/criteria - what to include, what not to), **Multitasking** (seeing what applications you have open (**Activities overview** options, if you wish to have it), **Applications** (Integration of the application that uses system features is by default turned on, i.e., **Notifications**, can either be on or off for each application) and below it you are notified of what the **Default handlers** are, i.e., Types of files and links that the application opens.

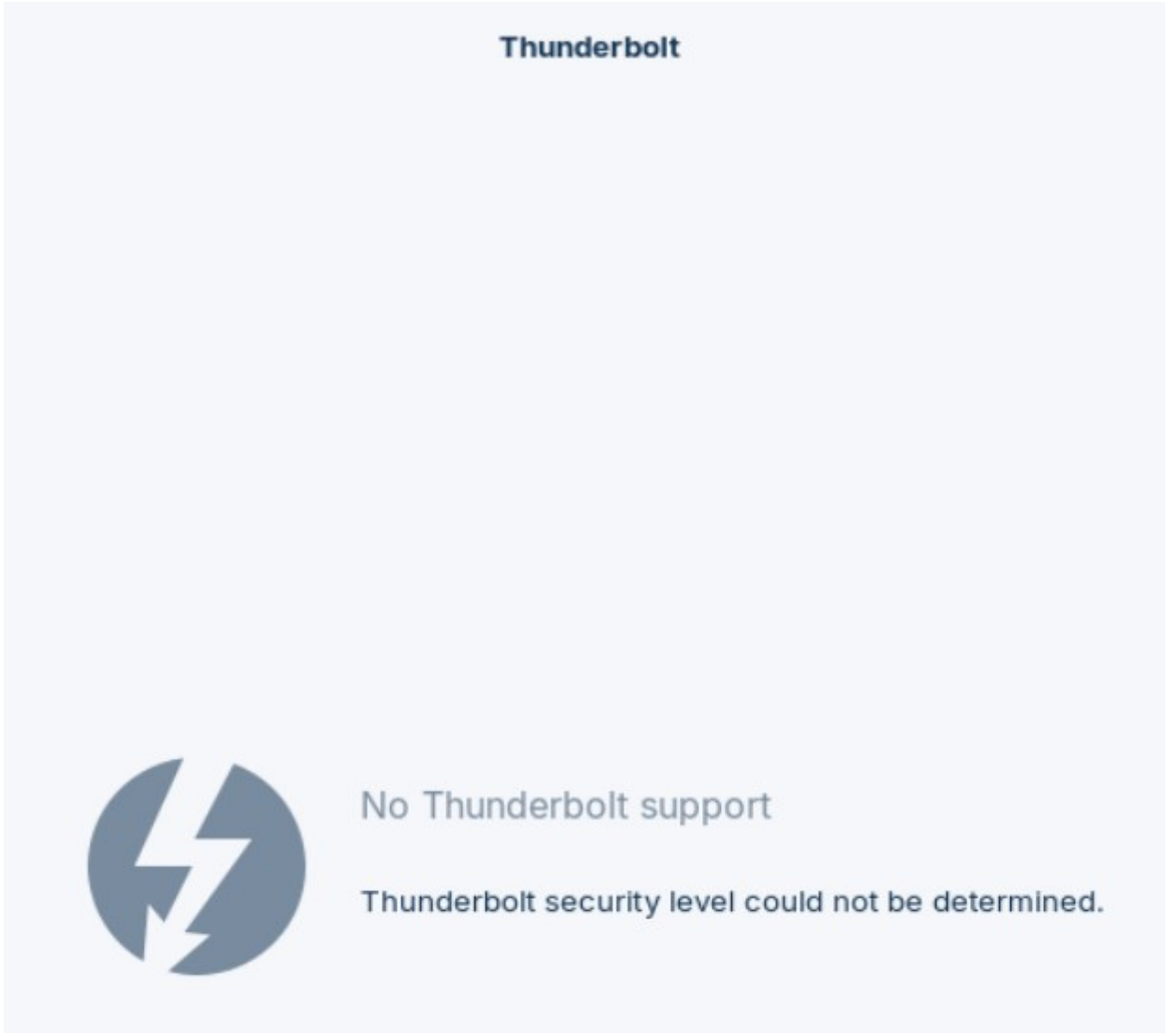
So let’s start with a screenshot of **Settings** (top half):

Connectivity checking is used to detect connection issues and helps you to stay online. If your network communications are being monitored, it could be used to gather technical information about this computer.
Connectivity Checking



I have just taken a screenshot of the left pane for ease of reading, more detail of each section to follow. Next the bottom-half of **Settings**.

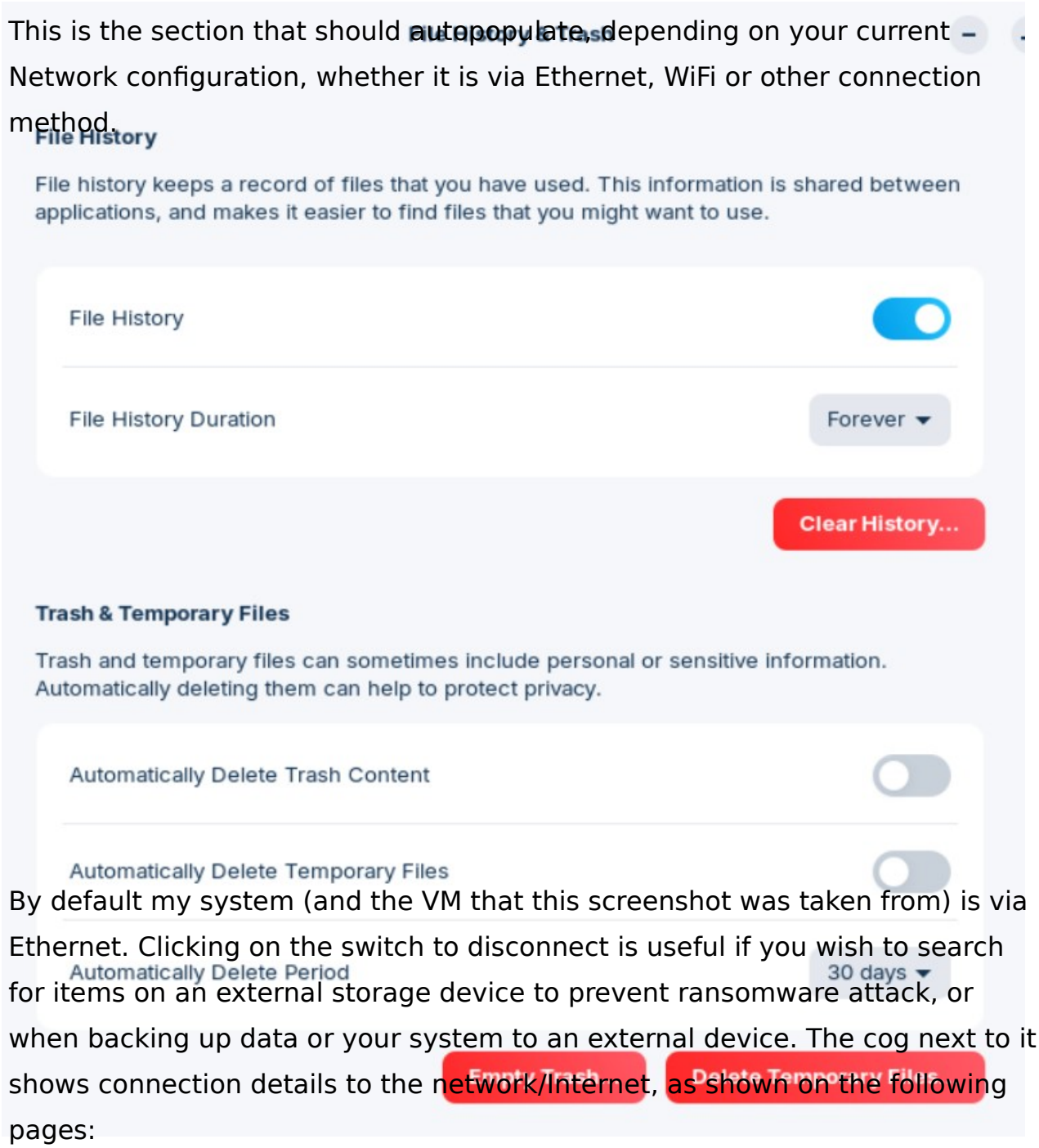
Settings (bottom half)



Now for each section of **Settings**.

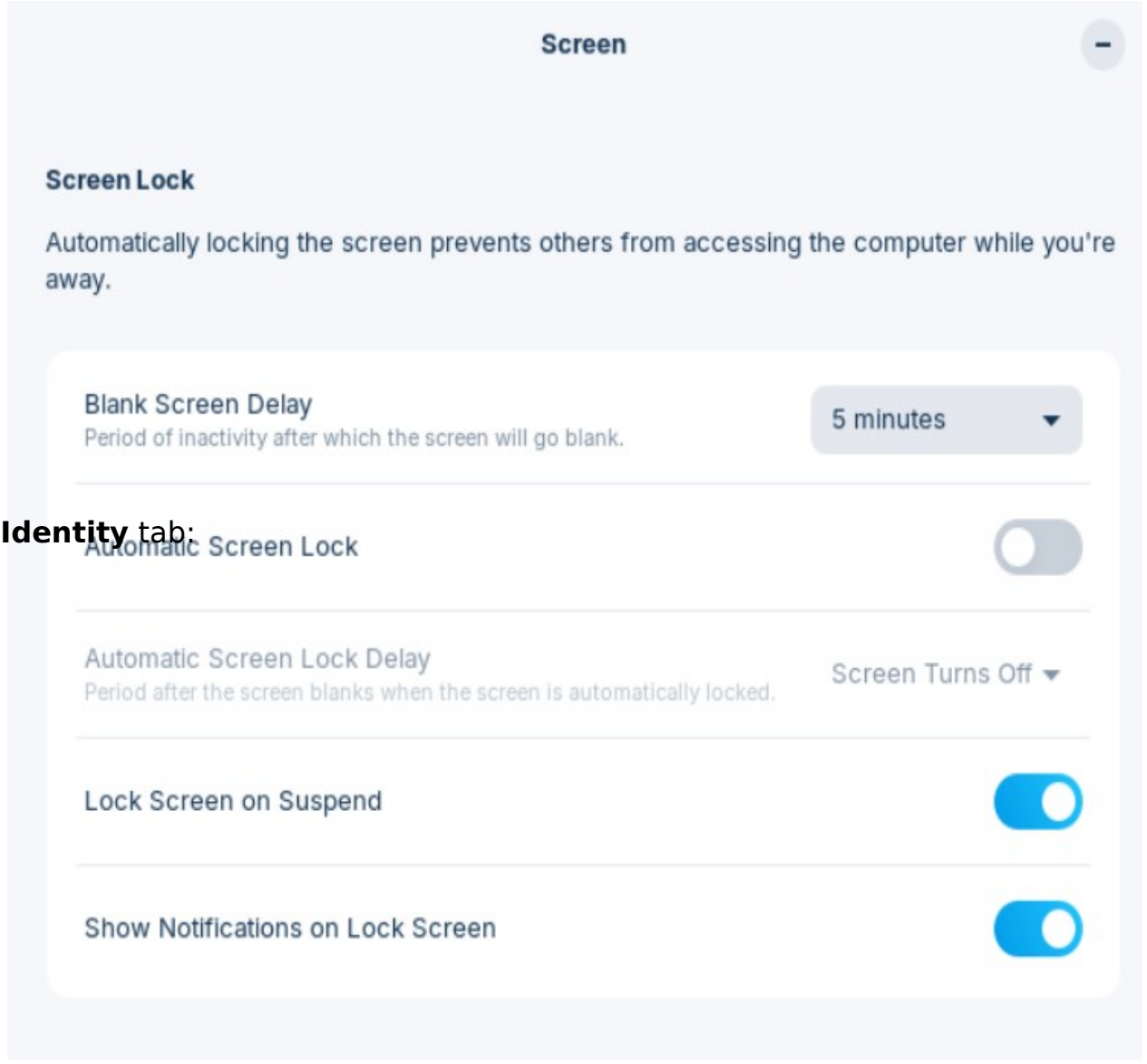
Network

This is the section that should autopopulate, depending on your current Network configuration, whether it is via Ethernet, WiFi or other connection method.

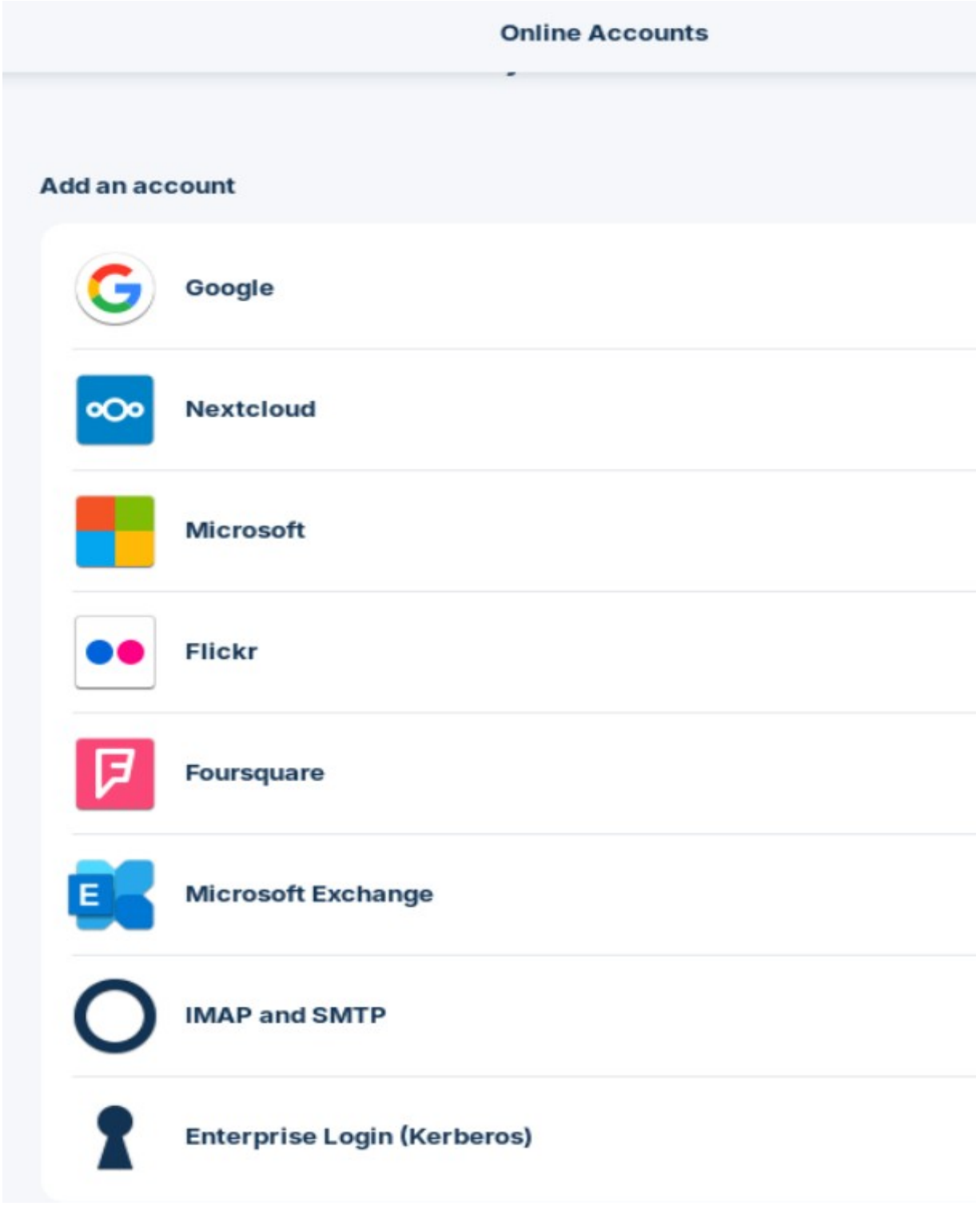

File History
File history keeps a record of files that you have used. This information is shared between applications, and makes it easier to find files that you might want to use.
File History
File History Duration
Forever
Clear History...
Trash & Temporary Files
Trash and temporary files can sometimes include personal or sensitive information. Automatically deleting them can help to protect privacy.
Automatically Delete Trash Content
Automatically Delete Temporary Files
Automatically Delete Period
30 days
Empty Trash
Delete Temporary Files

By default my system (and the VM that this screenshot was taken from) is via Ethernet. Clicking on the switch to disconnect is useful if you wish to search for items on an external storage device to prevent ransomware attack, or when backing up data or your system to an external device. The cog next to it shows connection details to the network/Internet, as shown on the following pages:

Details tab:


Screen
Screen Lock
Automatically locking the screen prevents others from accessing the computer while you're away.
Blank Screen Delay
Period of inactivity after which the screen will go blank.
5 minutes
Automatic Screen Lock
Automatic Screen Lock Delay
Period after the screen blanks when the screen is automatically locked.
Screen Turns Off
Lock Screen on Suspend
Show Notifications on Lock Screen

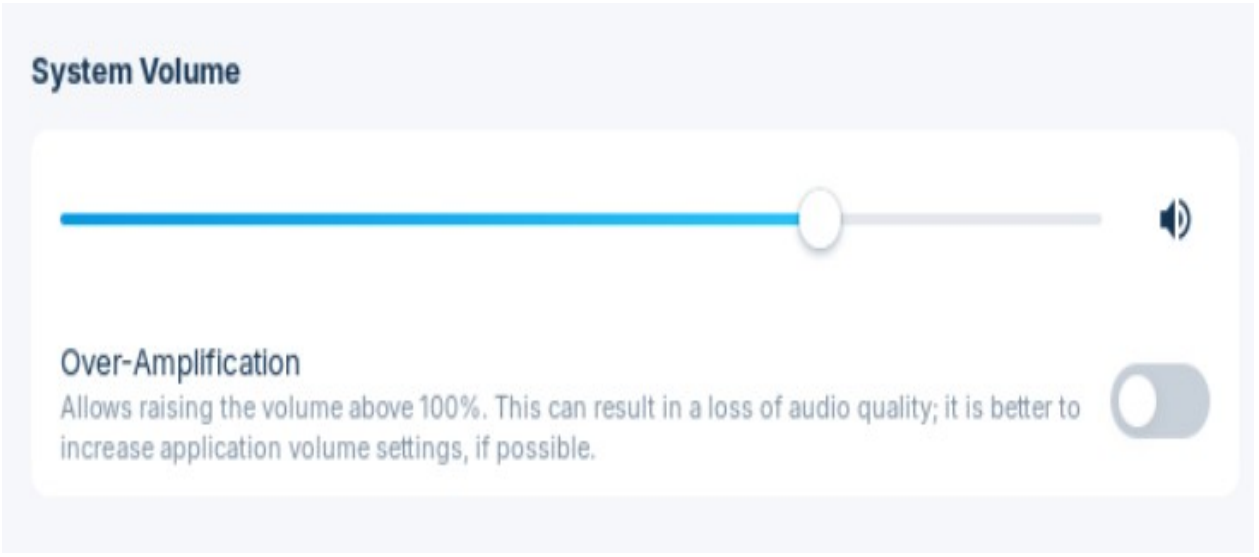
Identity tab:

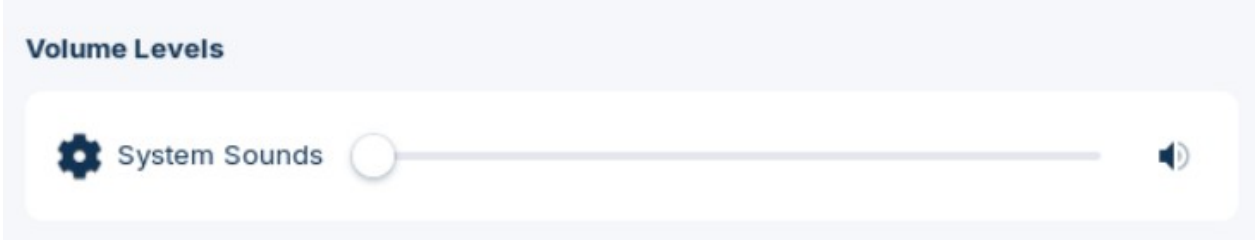

Online Accounts
Add an account
Google
Nextcloud
Microsoft
Flickr
Foursquare
Microsoft Exchange
IMAP and SMTP
Enterprise Login (Kerberos)

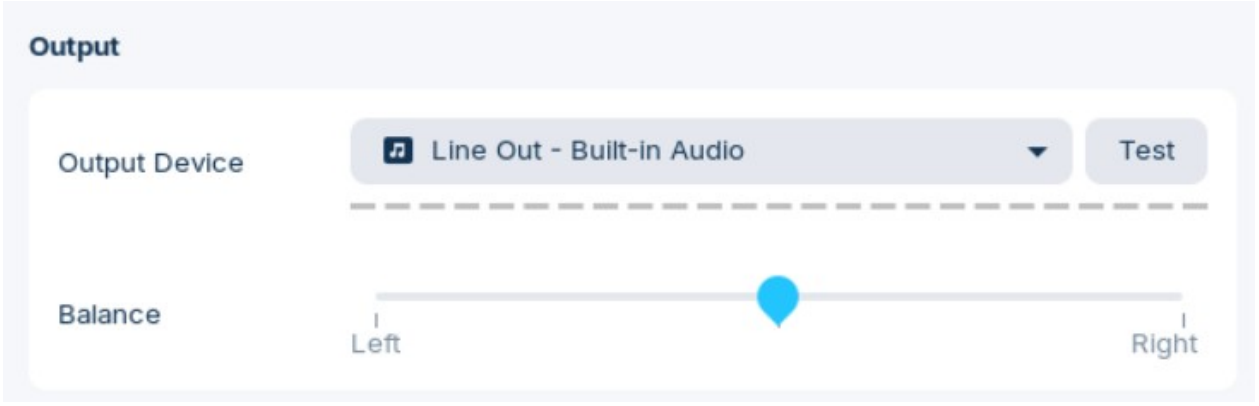
IPv4 tab:

IPv6 tab:

Note under the IPv6 tab, this is set to automatic, if like me, you ISP (Internet Service Provider) does not support IPv6 and you are having issues connecting to the internet, select **Disable** and click on the **Apply** button.


System Volume
Over-Amplification
Allows raising the volume above 100%. This can result in a loss of audio quality; it is better to increase application volume settings, if possible.


Volume Levels
System Sounds


Output
Output Device
Line Out - Built-in Audio
Test
Balance
Left
Right

Security tab:

The security tab and **802.1x Security** option is there for systems connected to a Corporate Server, so should not be turned on.

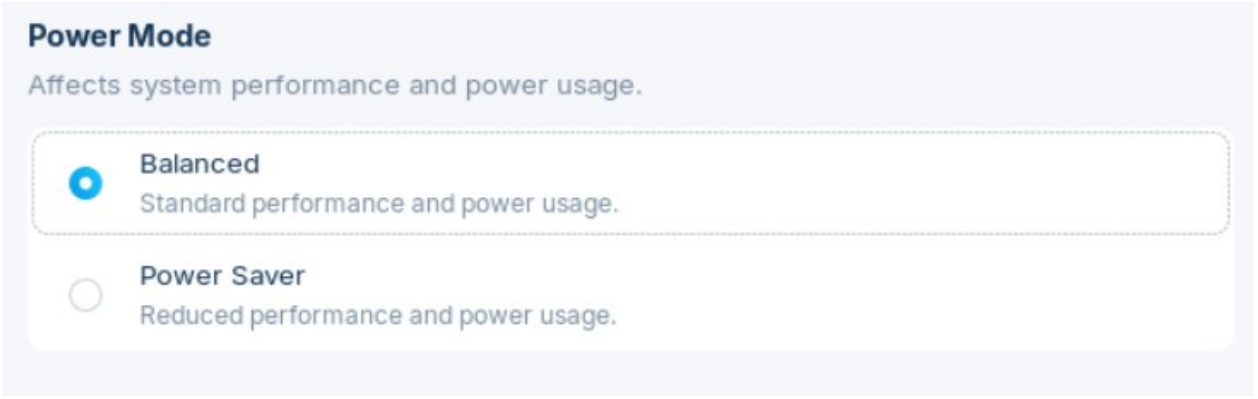
Network Proxy setting. Clicking on the cog reveals:

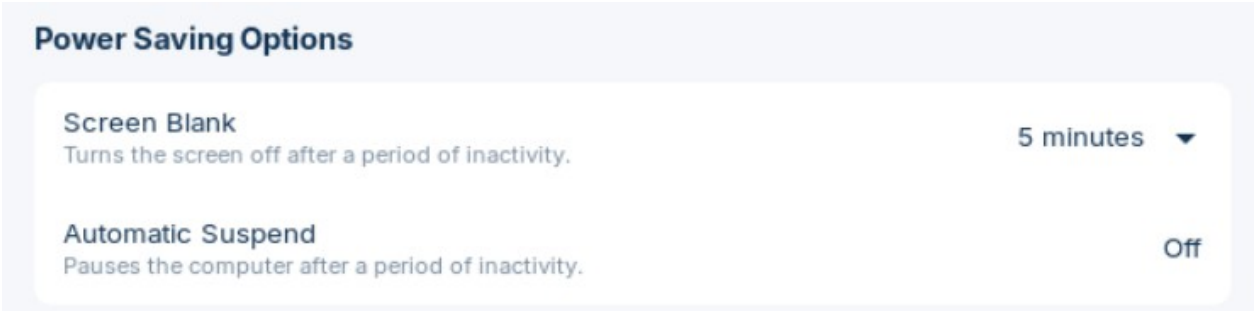
Disabled is the default setting for **Network Proxy**, and should not cause any issues unless of course you do use a **Network Proxy**.

Firewall Configuration

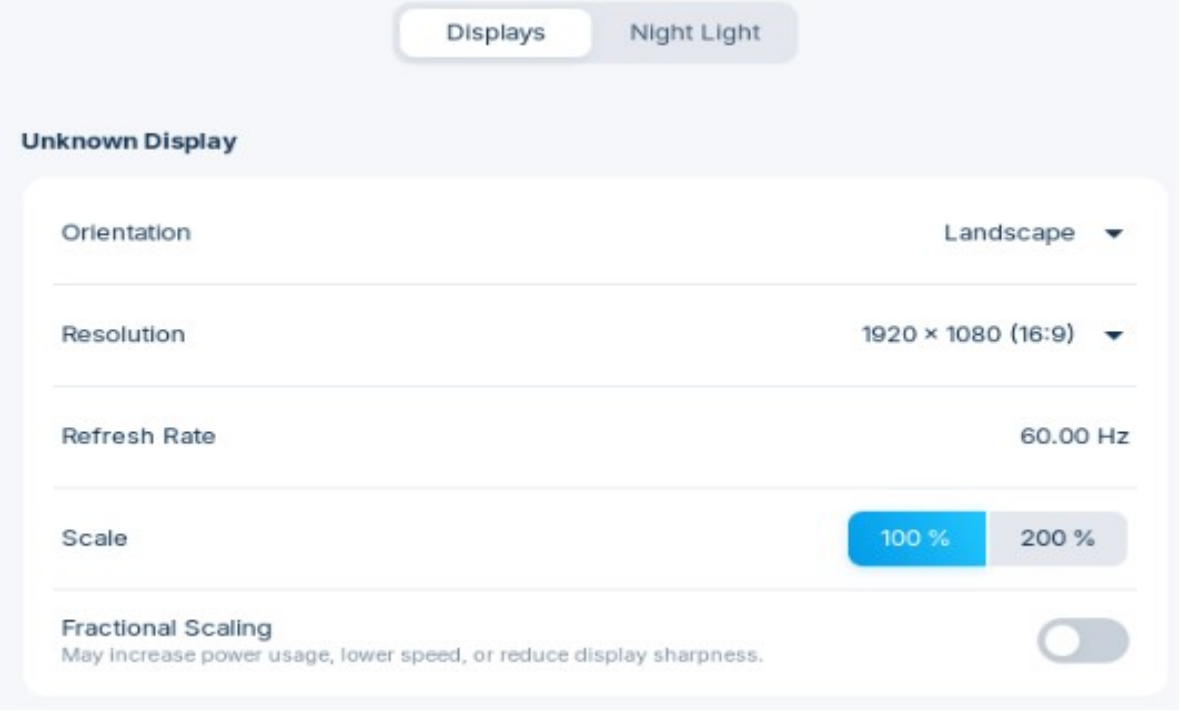
This launches the Gnome Uncomplicated Firewall (Gufw) application. By default it is off - Turn it on!

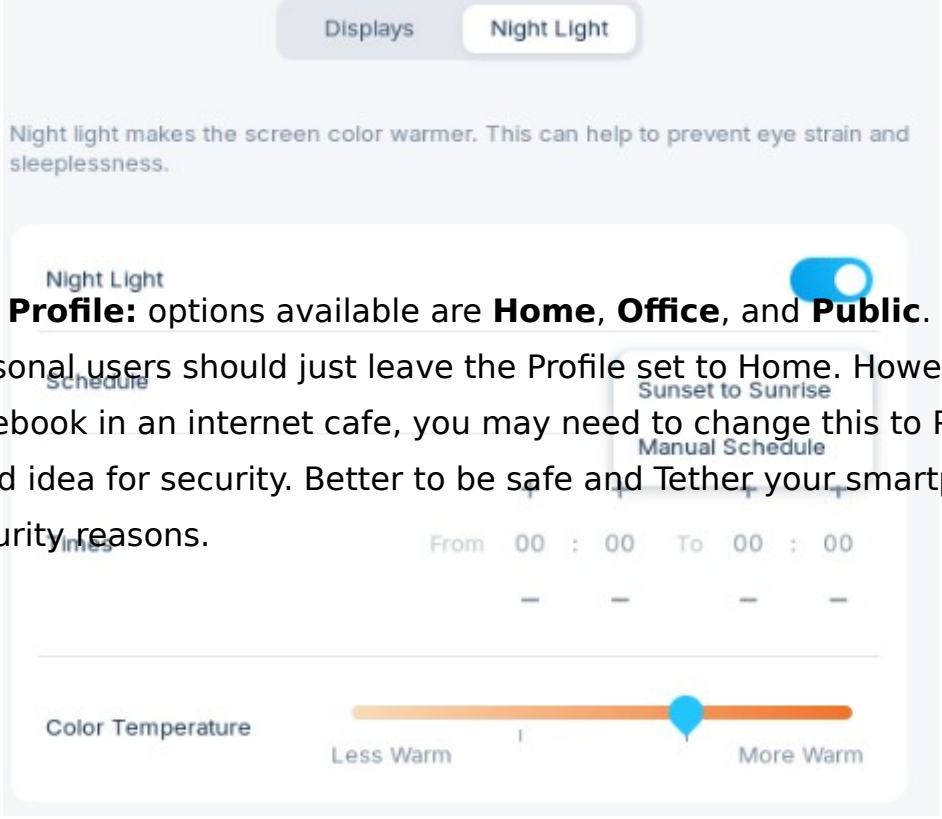
Firewall is off in this image. Select the **Status:** switch to turn it on.





Firewall is on in this screenshot:

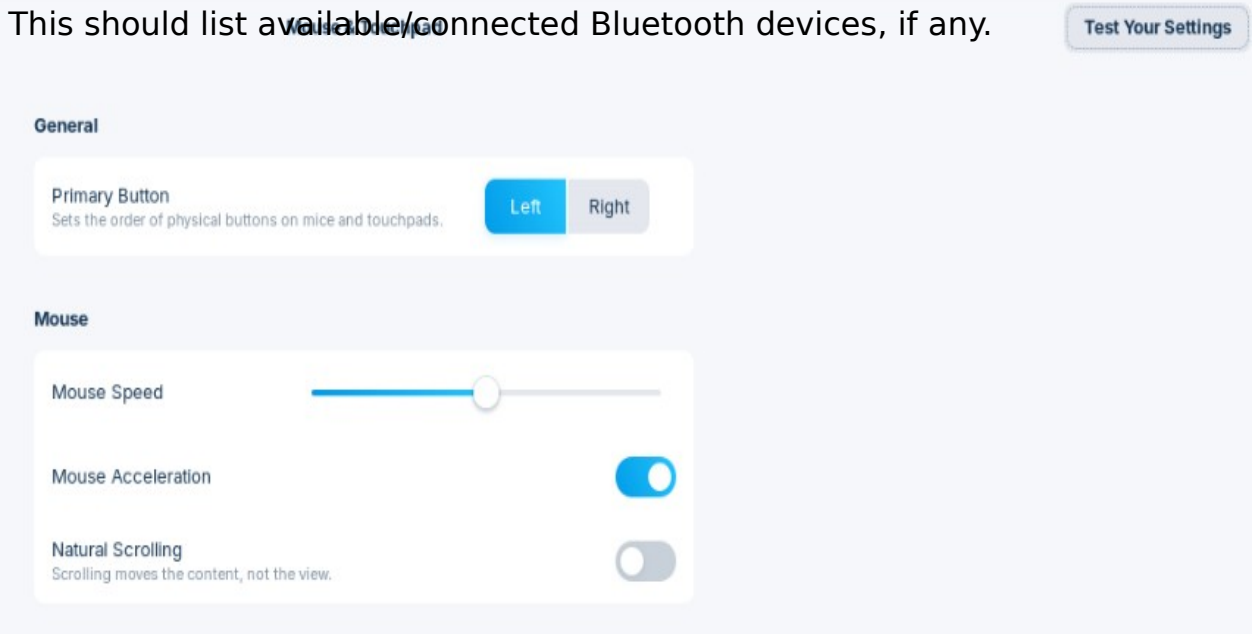


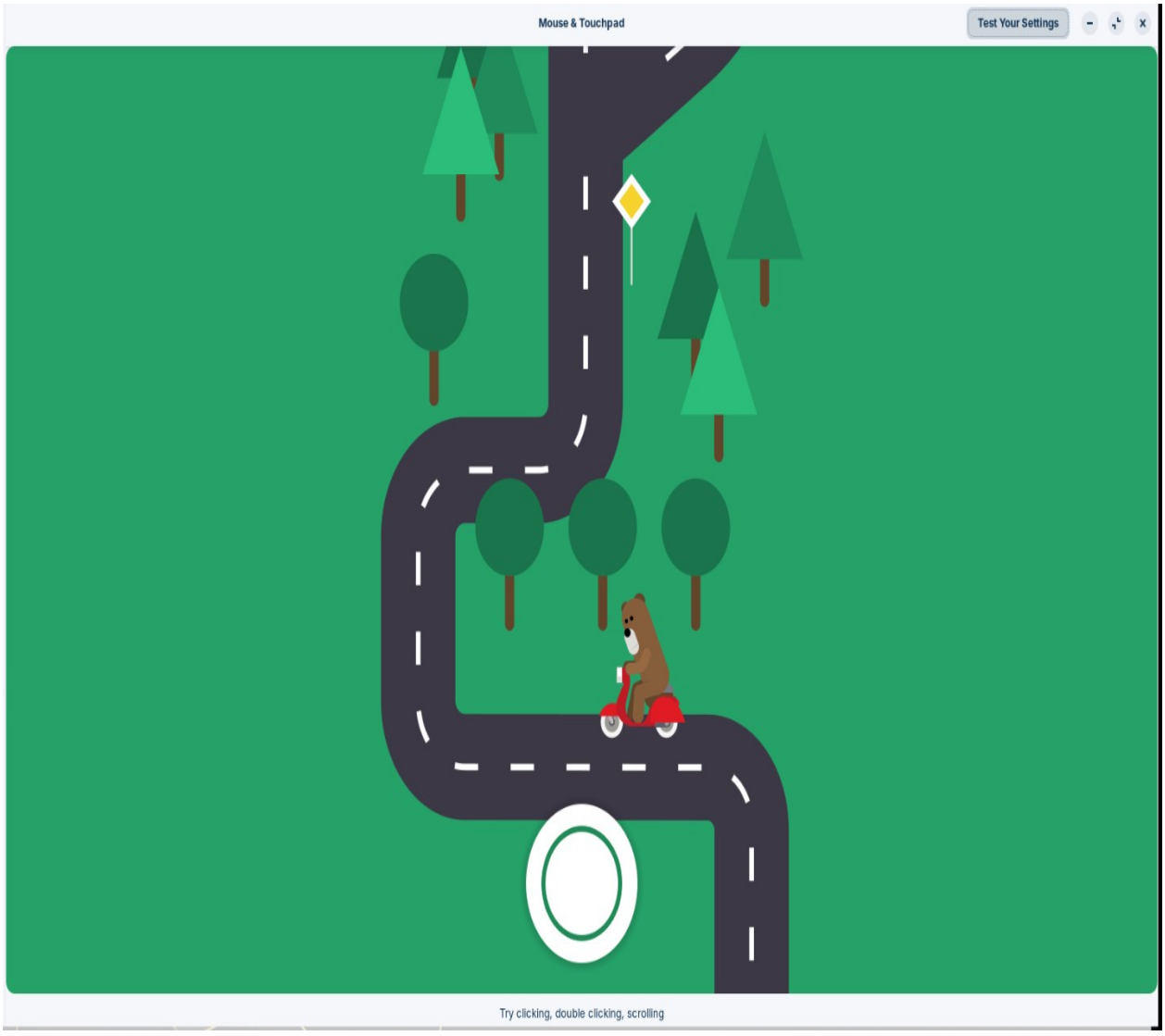


The **Profile:** options available are **Home**, **Office**, and **Public**. Obviously, personal users should just leave the Profile set to Home. However, if using a notebook in an internet cafe, you may need to change this to Public, but not a good idea for security. Better to be safe and Tether your smartphone for security reasons.

Bluetooth

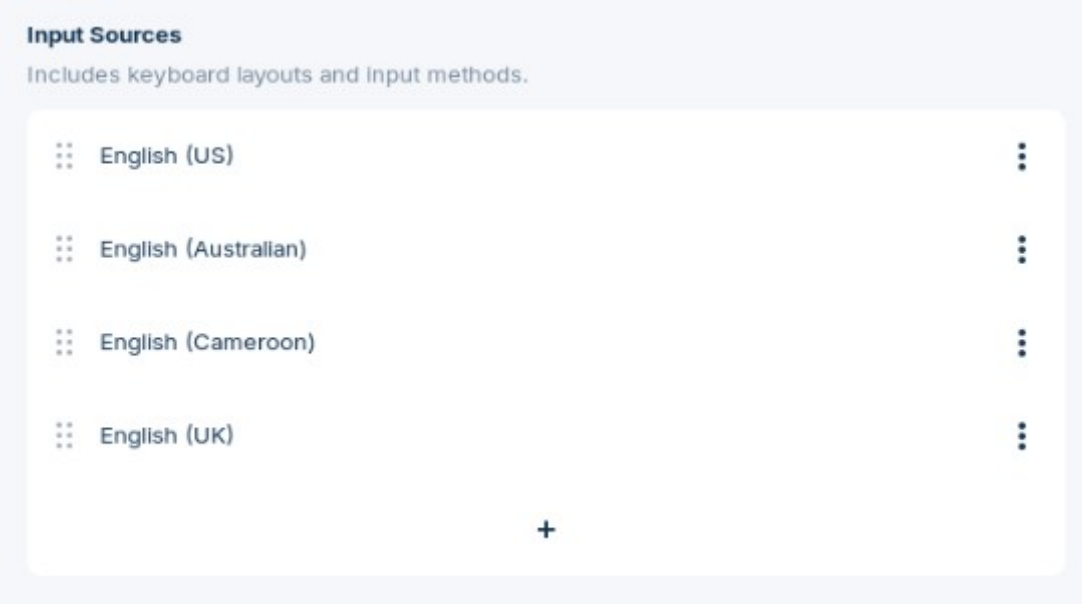
This should list available/connected Bluetooth devices, if any.

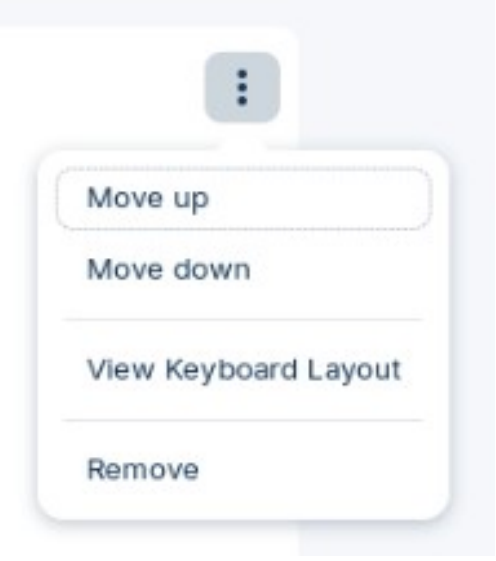


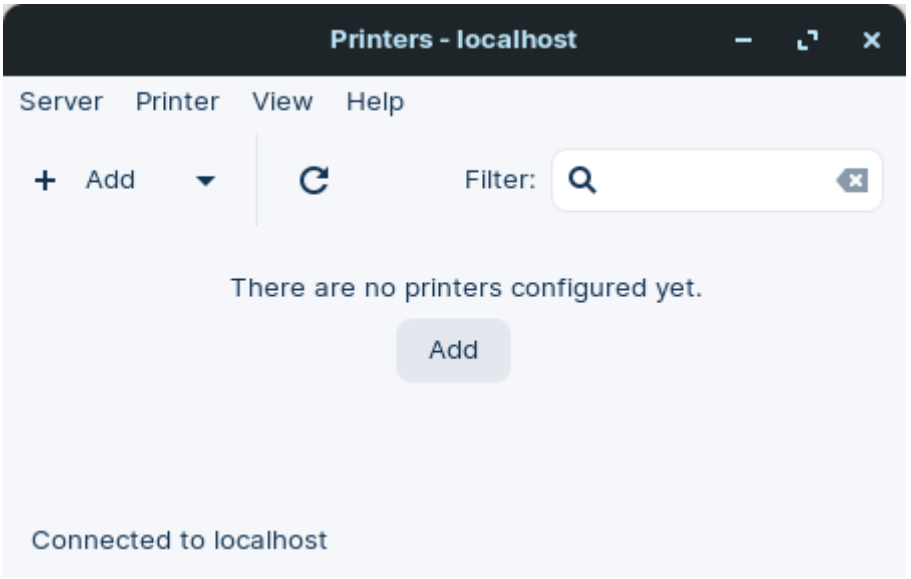


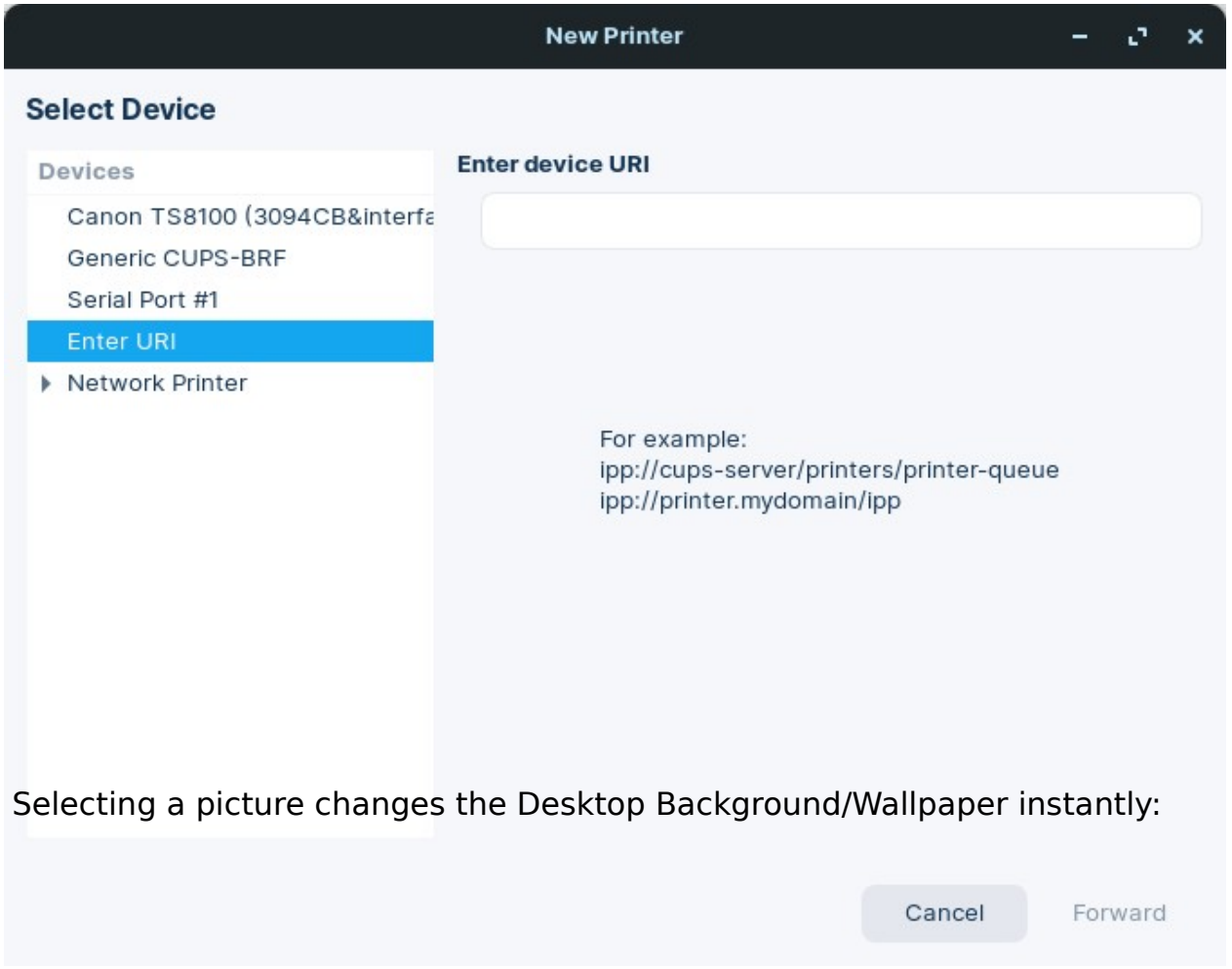
Background

This is where you can choose your desktop wallpaper and if you don’t fancy what is on offer you can choose a picture from your Pictures folder by clicking on **Add Picture …**:





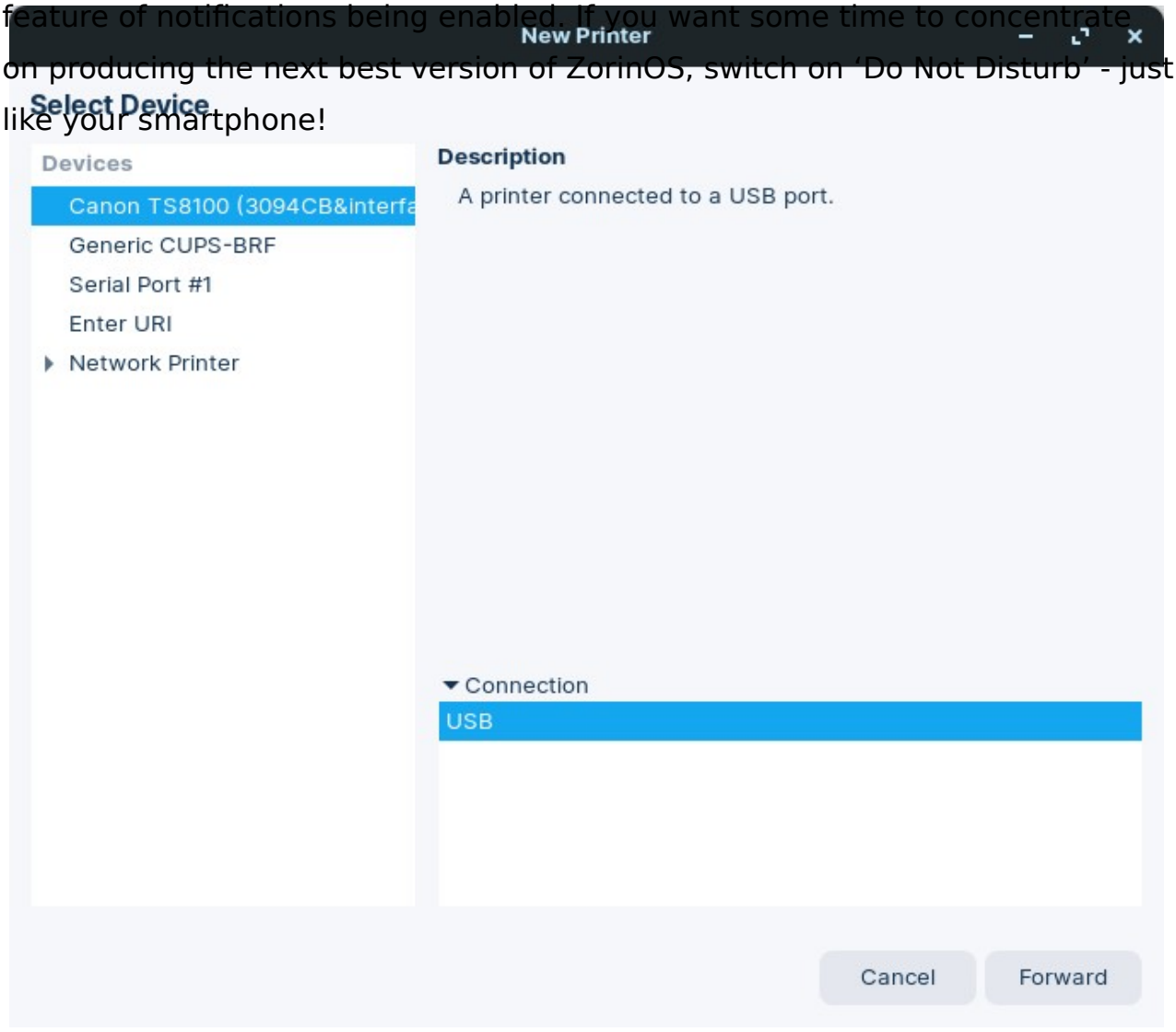

Printers - localhost
Server
Printer
View
Help
Add
Filter:
There are no printers configured yet.
Add
Connected to localhost



Selecting a picture changes the Desktop Background/Wallpaper instantly:

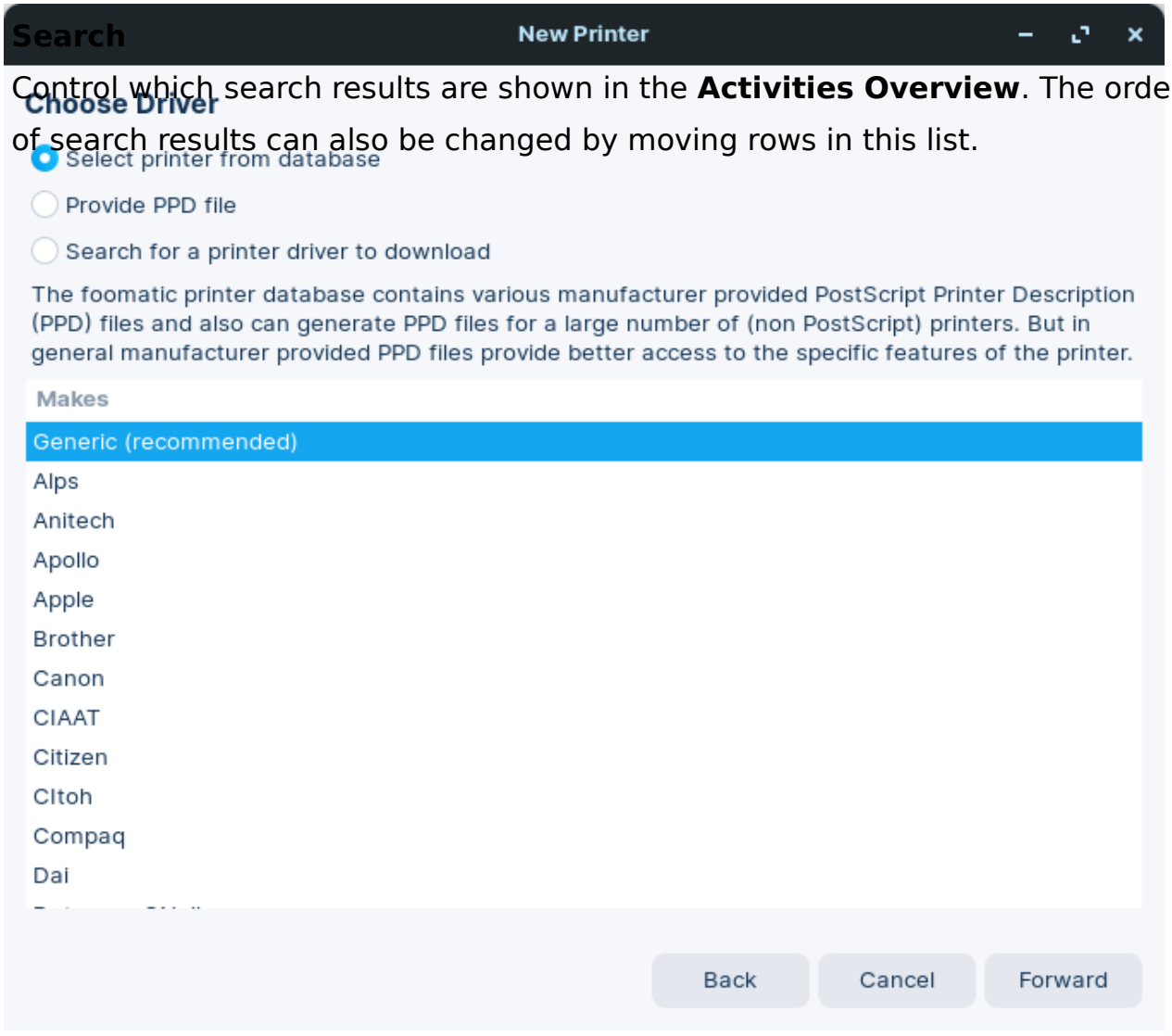
Notifications

This section lists all the applications that are capable of using the system feature of notifications being enabled. If you want some time to concentrate on producing the next best version of ZorinOS, switch on ‘Do Not Disturb’ - just like your smartphone!



Search

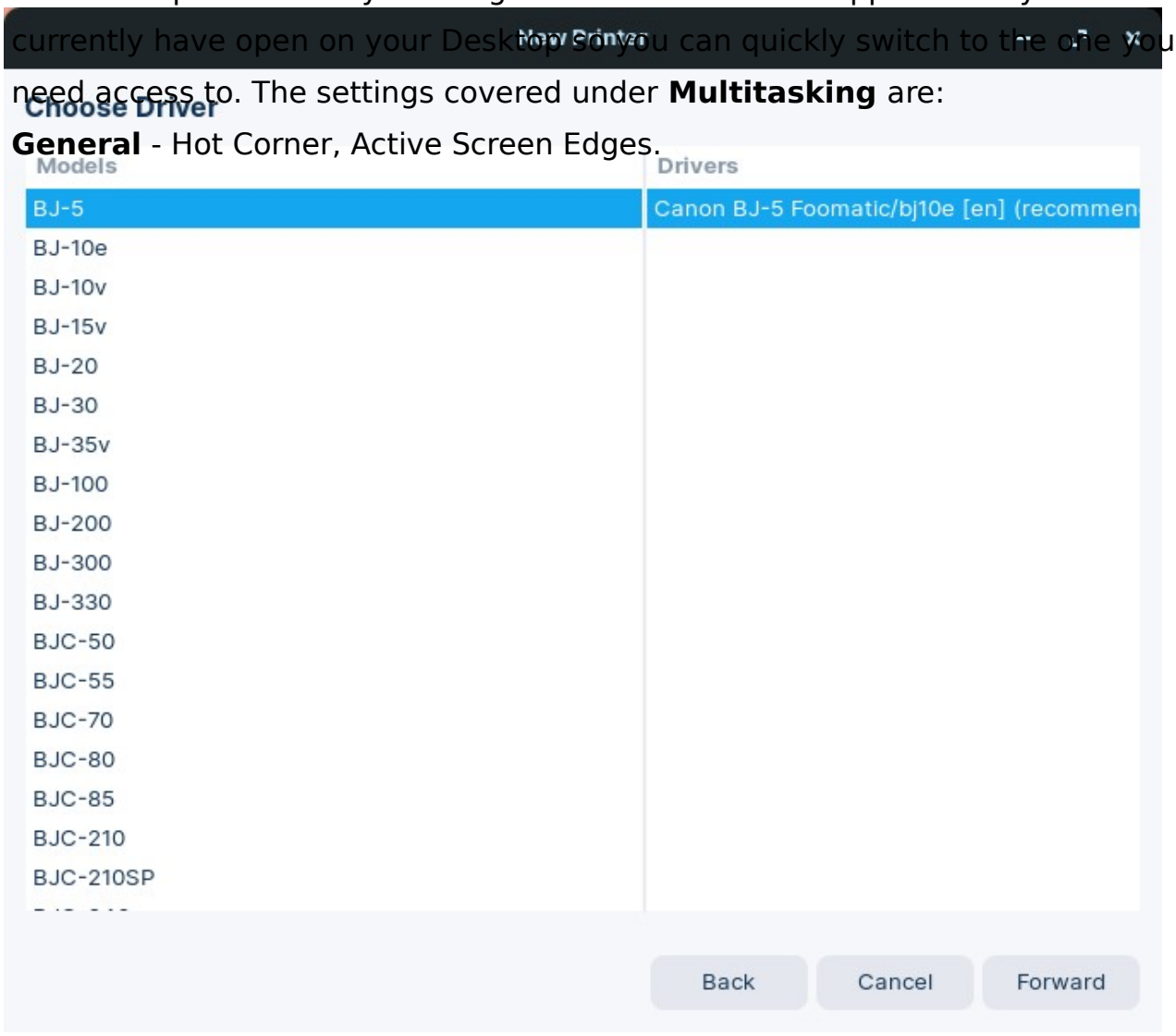
Control which search results are shown in the **Activities Overview**. The order of search results can also be changed by moving rows in this list.

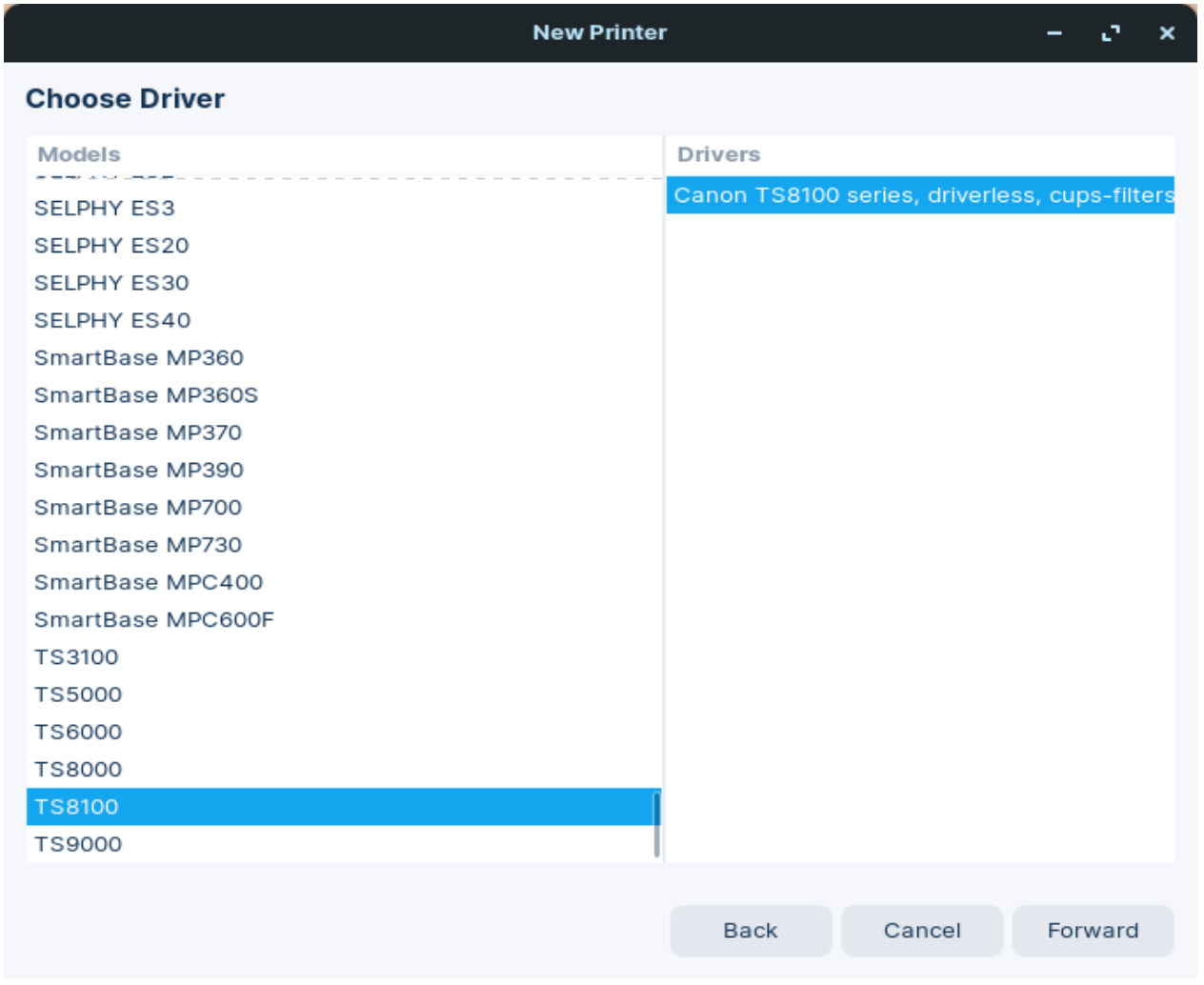


Multitasking

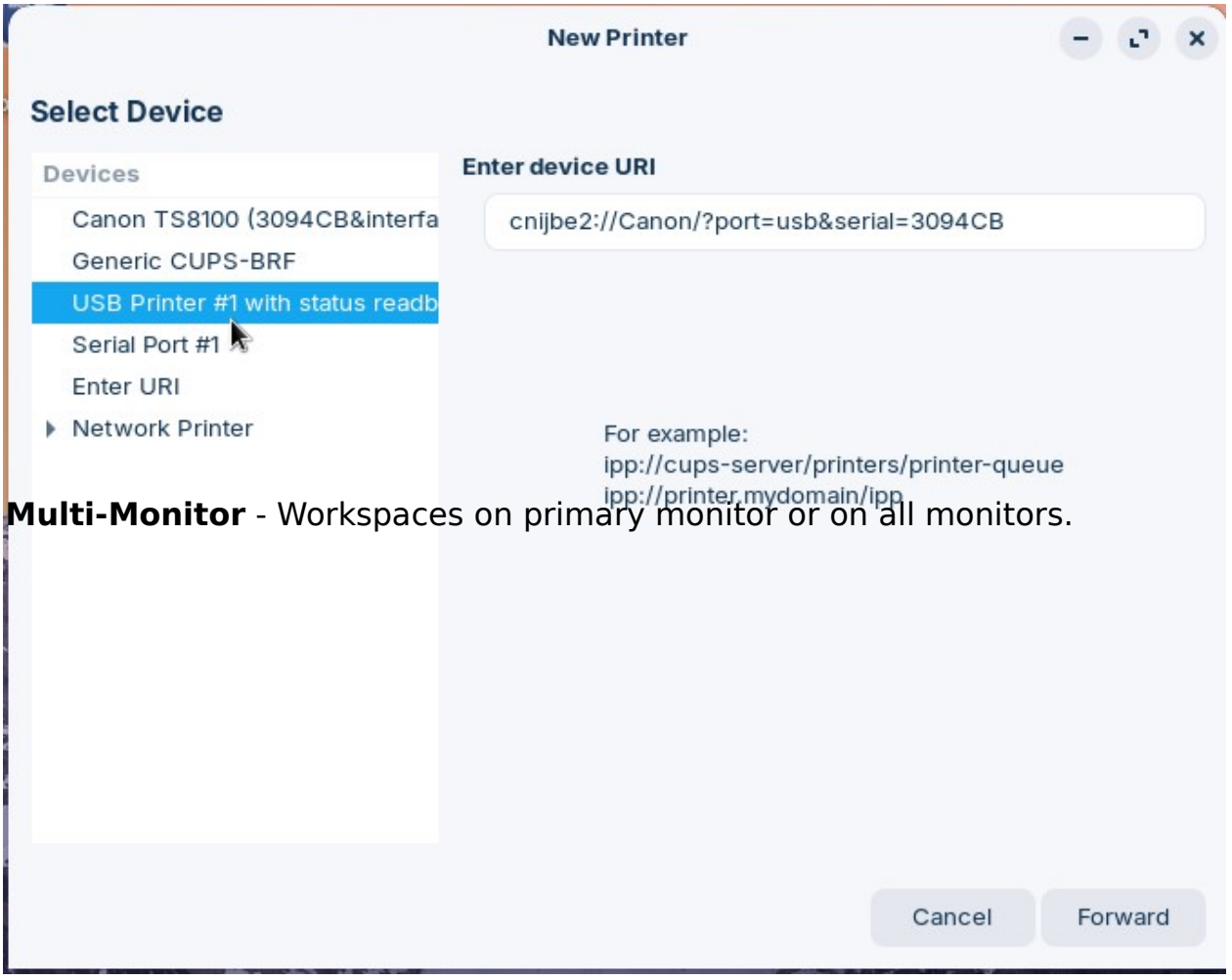
This is the place where you can get an overview of the applications you currently have open on your Desktop so you can quickly switch to the one you need access to. The settings covered under **Multitasking** are:

General - Hot Corner, Active Screen Edges.

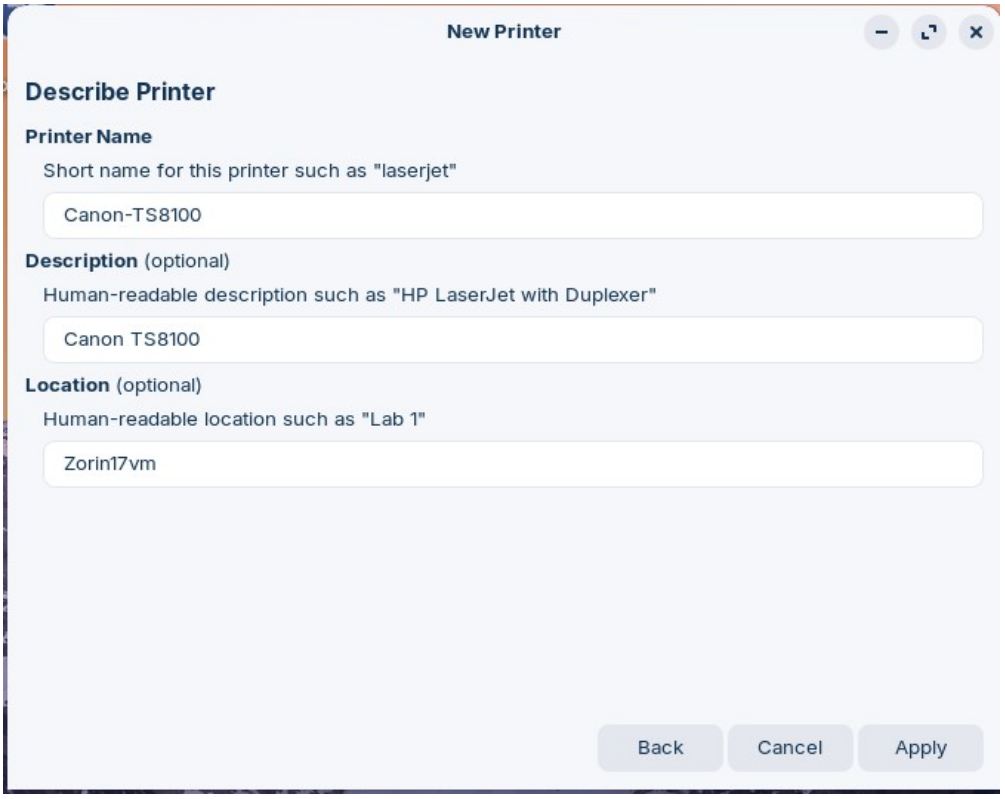


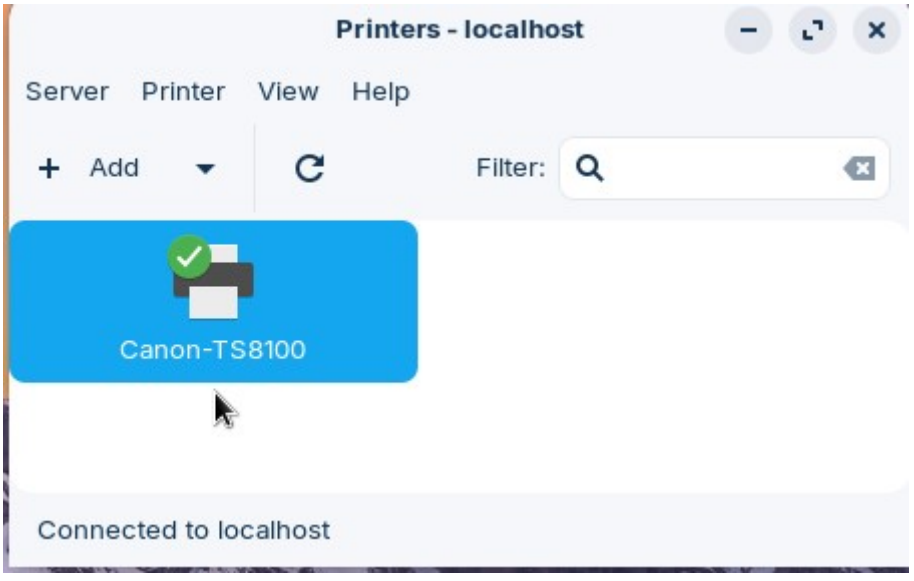

New Printer
Choose Driver
Models
Drivers
SELPHY ES3
SELPHY ES20
SELPHY ES30
SELPHY ES40
SmartBase MP360
SmartBase MP360S
SmartBase MP370
SmartBase MP390
SmartBase MP700
SmartBase MP730
SmartBase MPC400
SmartBase MPC600F
TS3100
TS5000
TS6000
TS8000
TS8100
TS9000
Canon TS8100 series, driverless, cups-filters
Back
Cancel
Forward

Workspaces - Dynamic, or fixed number of workspaces.

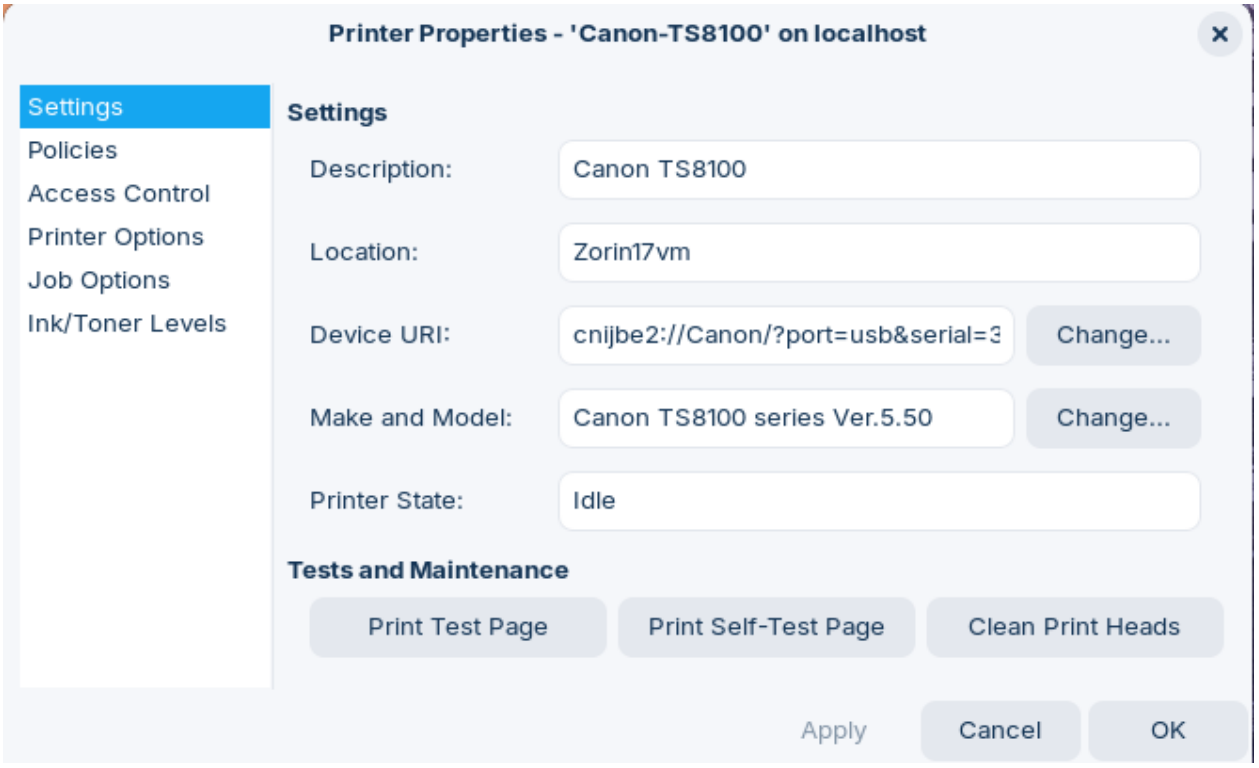


Multi-Monitor - Workspaces on primary monitor or on all monitors.

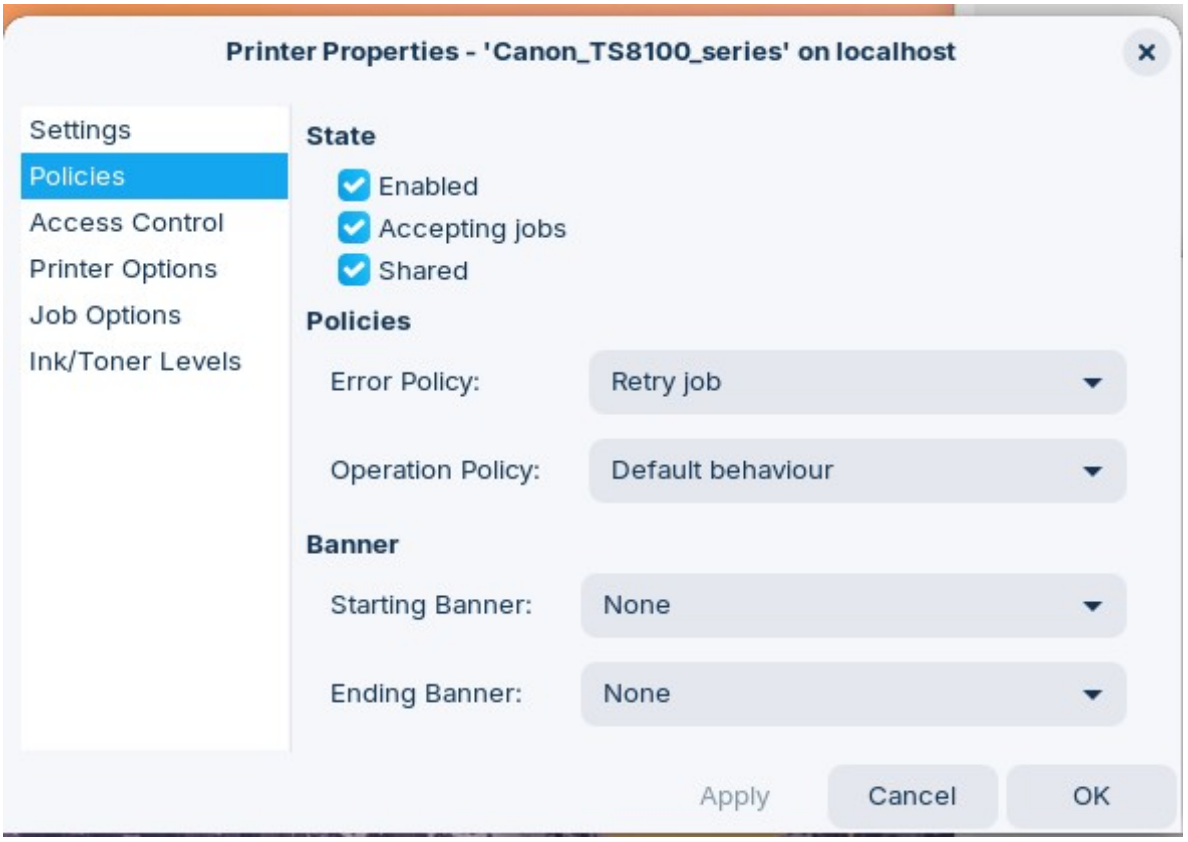

New Printer
Describe Printer
Printer Name
Short name for this printer such as "laserjet"
Canon-TS8100
Description (optional)
Human-readable description such as "HP LaserJet with Duplexer"
Canon TS8100
Location (optional)
Human-readable location such as "Lab 1"
Zorin17vm
Back
Cancel
Apply


Printers - localhost
Server
Printer
View
Help
Add
Filter:
Canon-TS8100
Connected to localhost

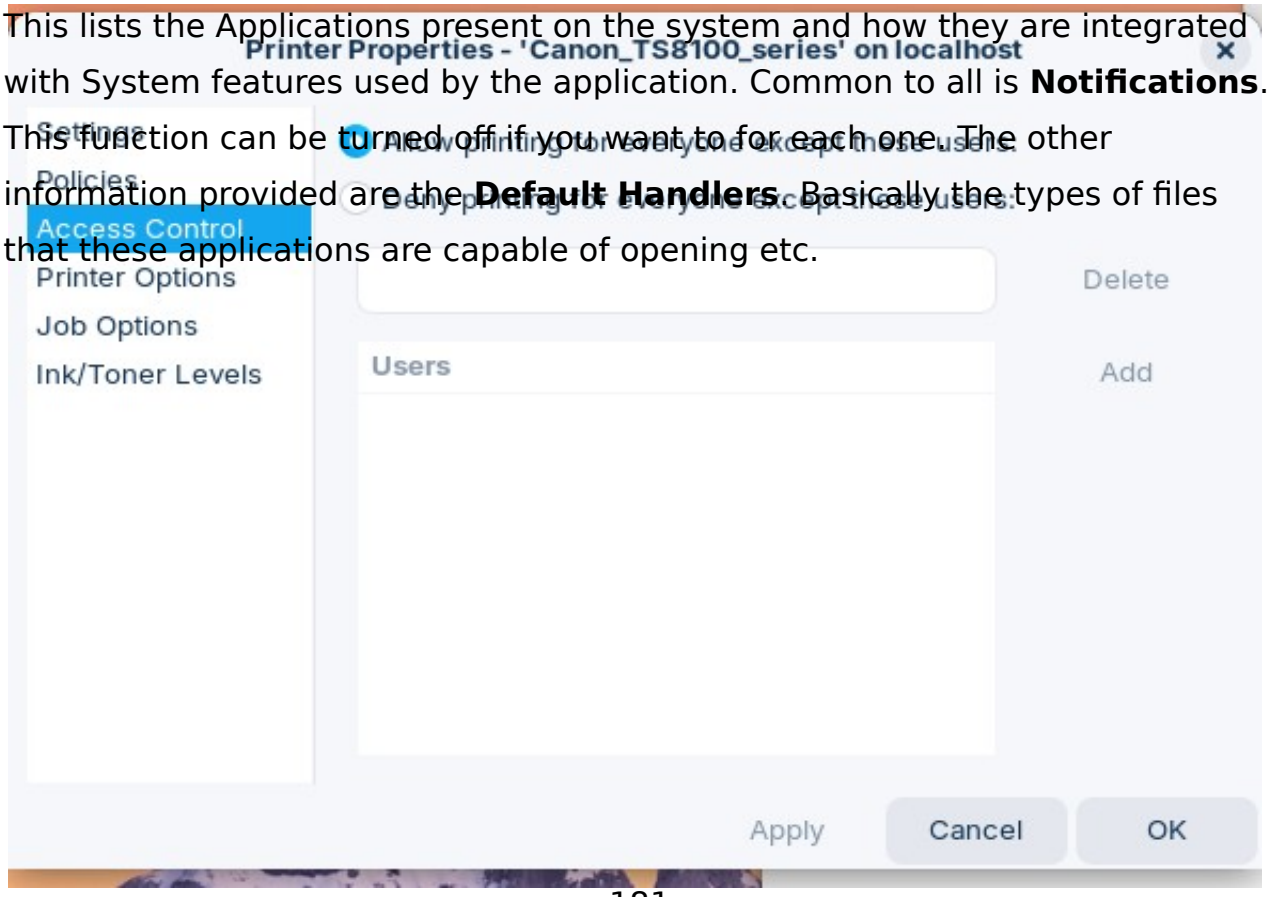
Application Switching:



Applications

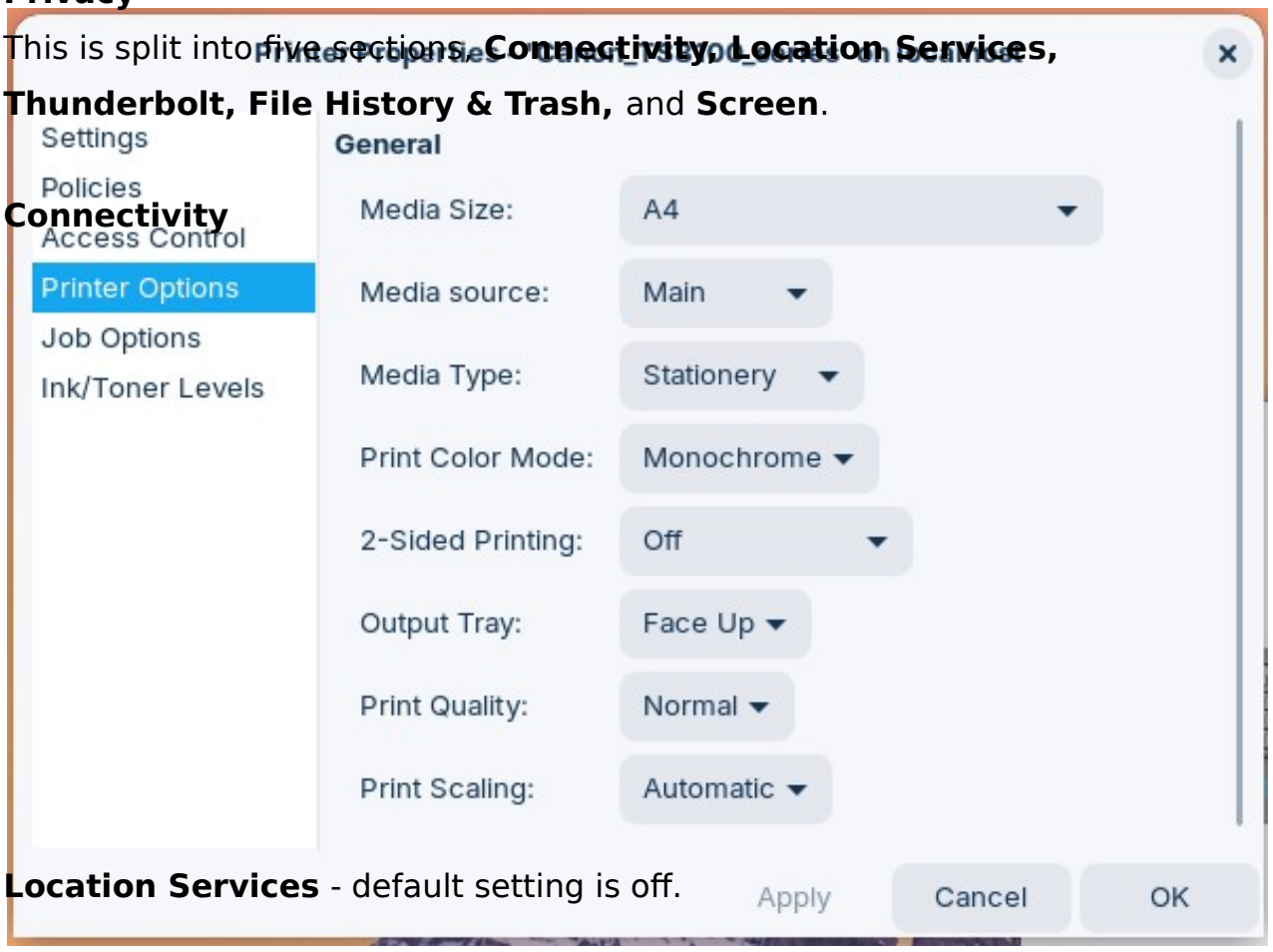


This lists the Applications present on the system and how they are integrated with System features used by the application. Common to all is **Notifications**. This function can be turned off if you want to for each one. The other information provided are the **Default Handlers**. Basically the types of files that these applications are capable of opening etc.



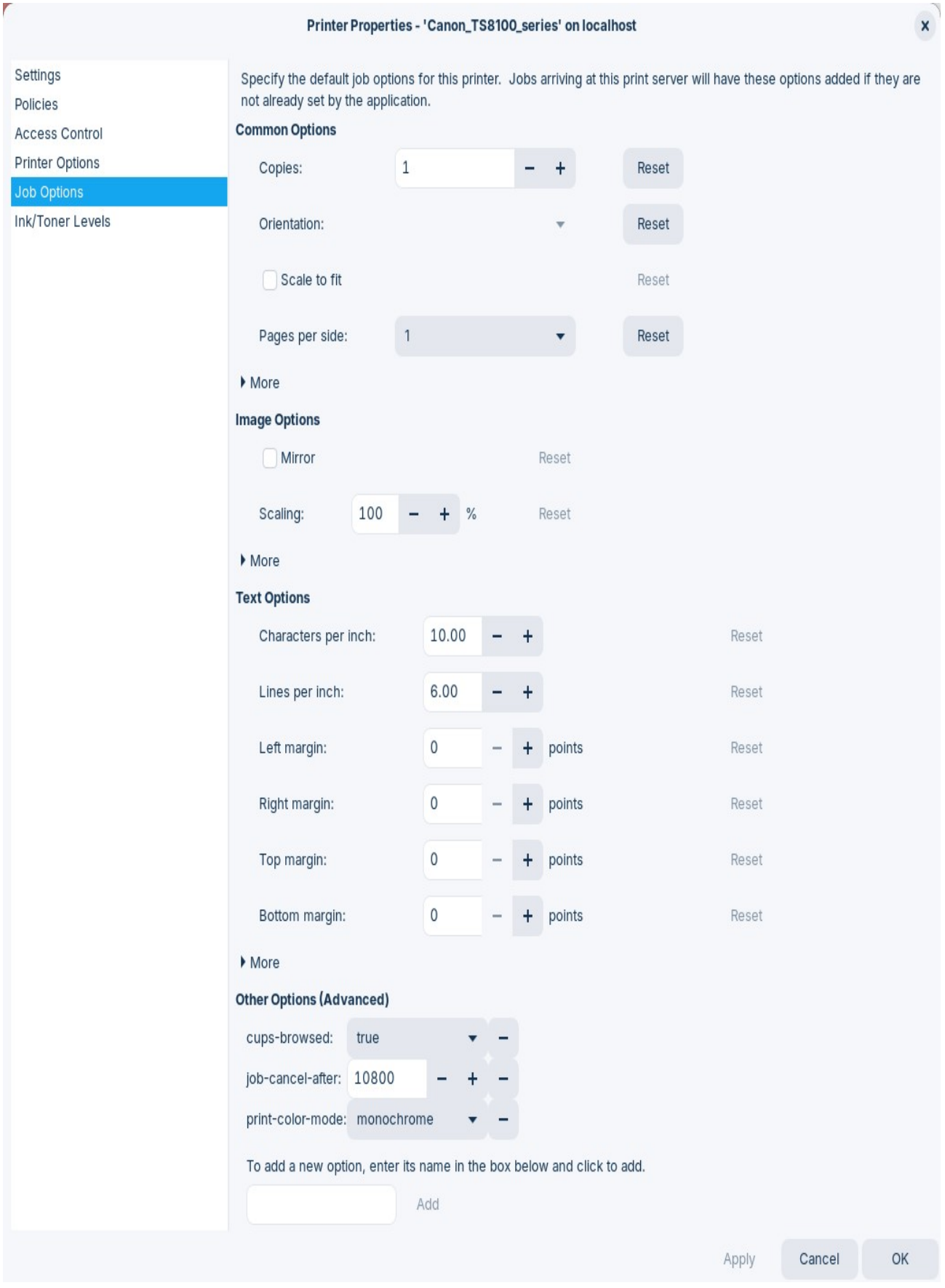
Privacy

This is split into five sections, **Connectivity, Location Services, Thunderbolt, File History & Trash,** and **Screen**.

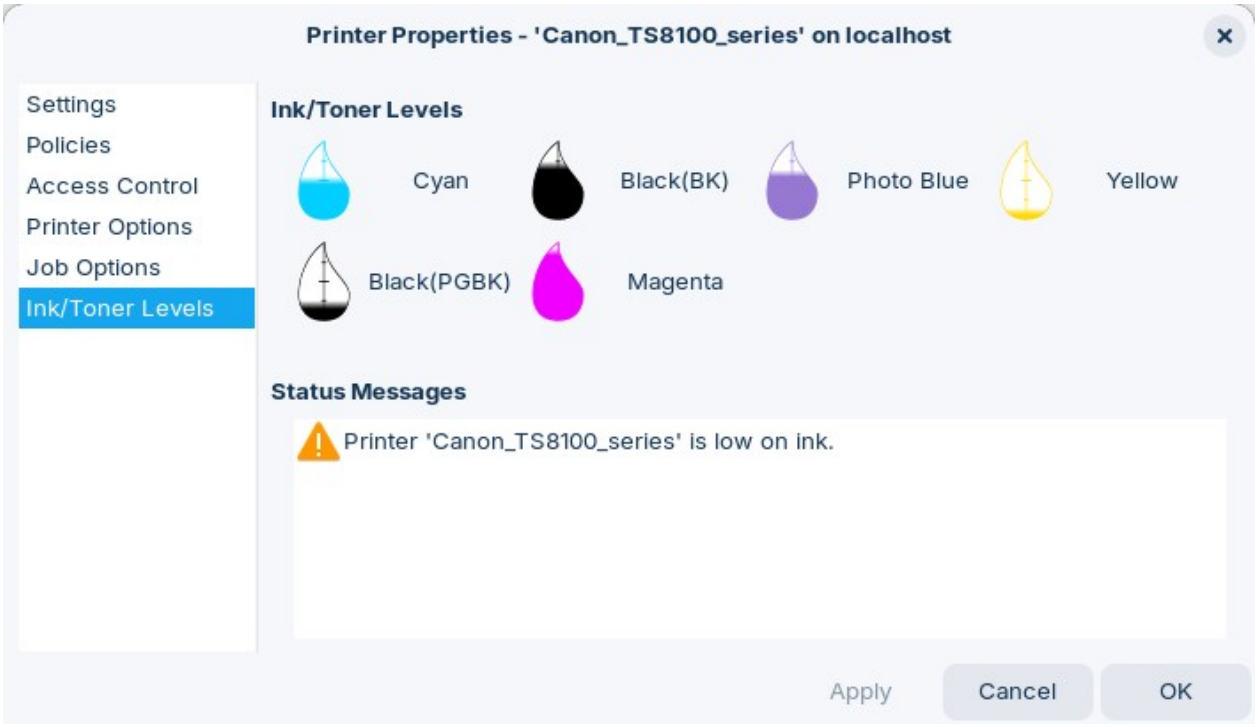


Connectivity

Location Services - default setting is off.

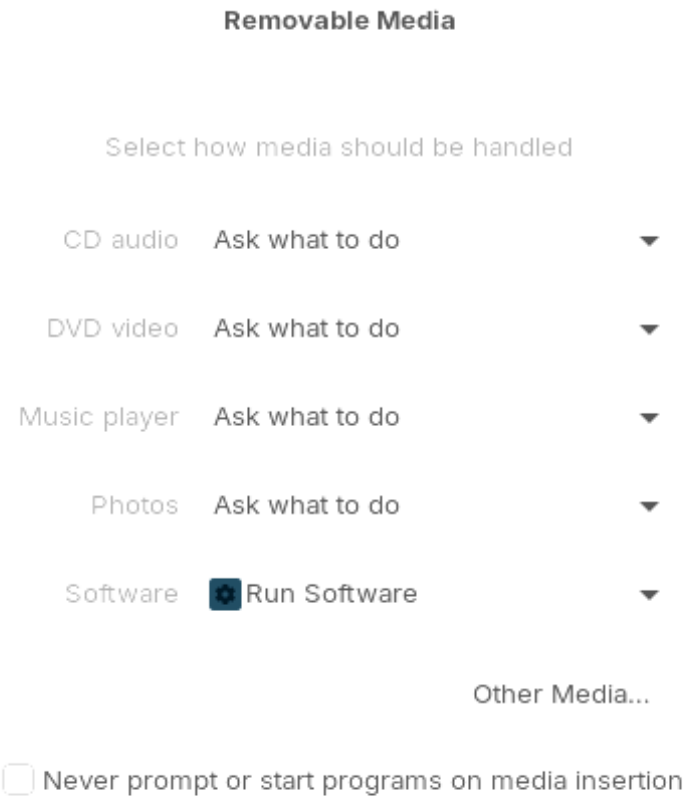

Printer Properties - 'Canon_TS8100_series' on localhost
Settings
Policies
Access Control
Printer Options
Job Options
Ink/Toner Levels
Specify the default job options for this printer. Jobs arriving at this print server will have these options added if they are not already set by the application.
Common Options
Copies: 1
Reset
Orientation:
Reset
Scale to fit
Reset
Pages per side: 1
Reset
More
Image Options
Mirror
Reset
Scaling: 100 %
Reset
More
Text Options
Characters per inch: 10.00
Reset
Lines per inch: 6.00
Reset
Left margin: 0 points
Reset
Right margin: 0 points
Reset
Top margin: 0 points
Reset
Bottom margin: 0 points
Reset
More
Other Options (Advanced)
cups-browsed: true
job-cancel-after: 10800
print-color-mode: monochrome
To add a new option, enter its name in the box below and click to add.
Add
Apply
Cancel
OK

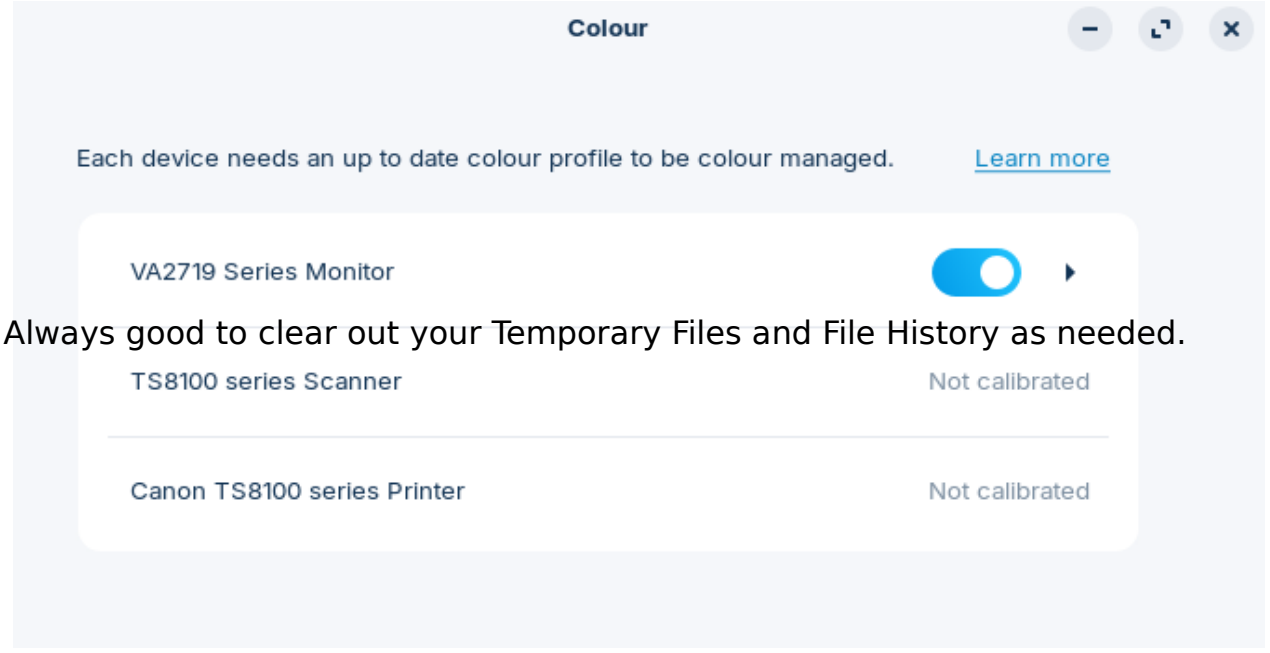
Thunderbolt



Personally, I don’t have such ports, but if I did, I would probably disable them!
https://www.slashgear.com/809436/new-thunderbolt-hack-exposes-your-files-how-to-check-if-youre-safe-updated/

File History & Trash

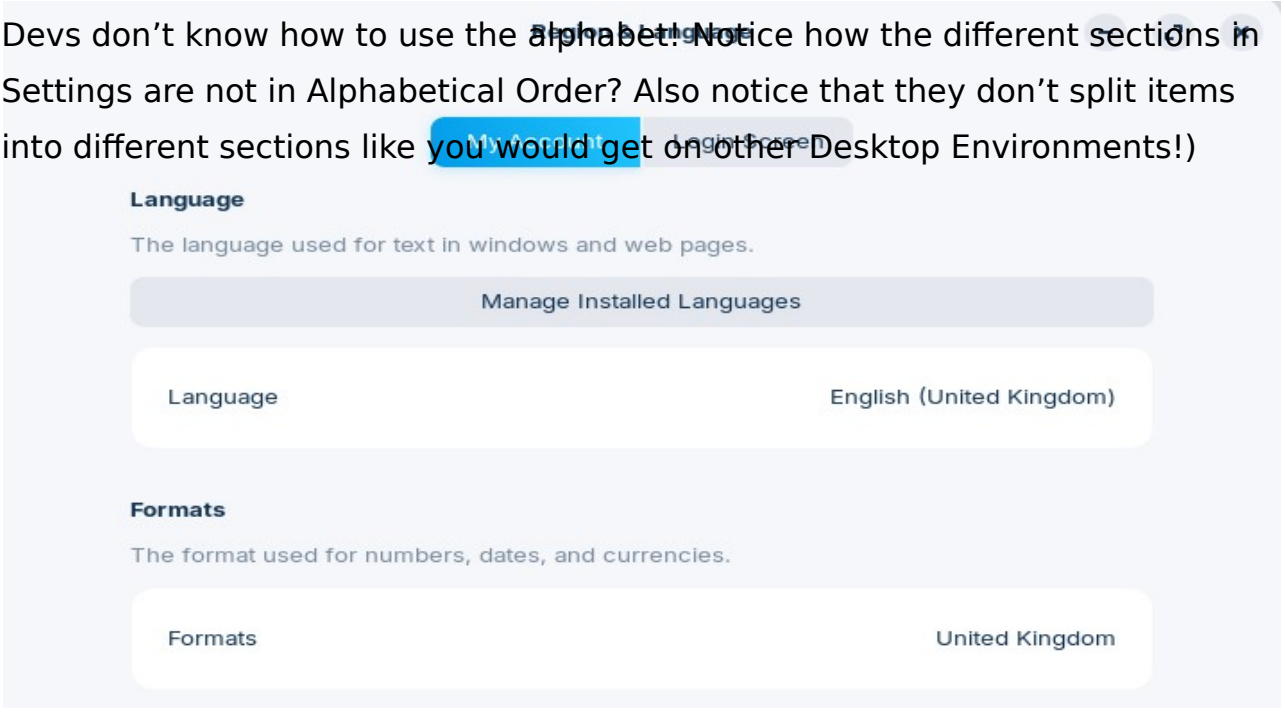




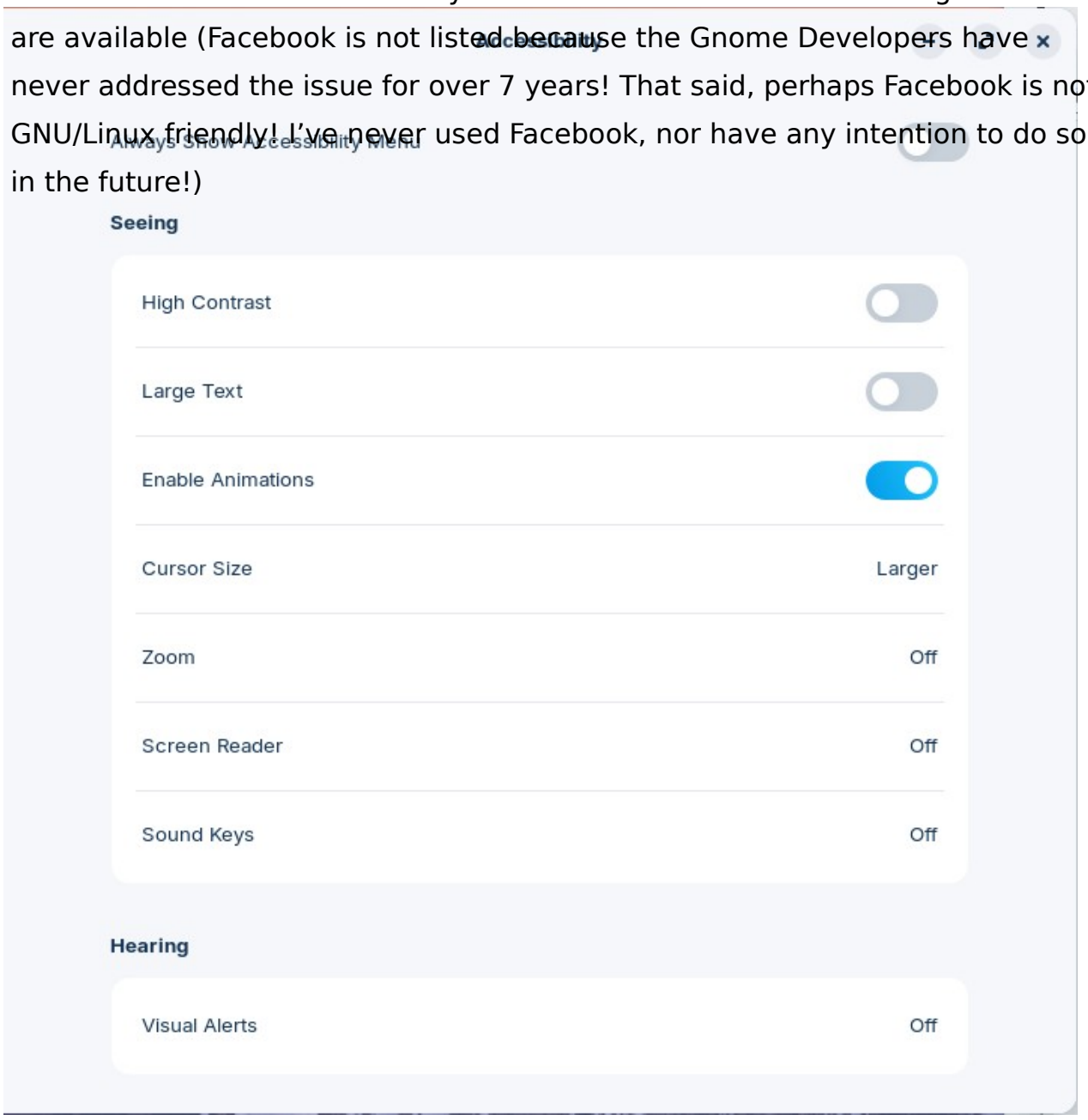
Always good to clear out your Temporary Files and File History as needed.

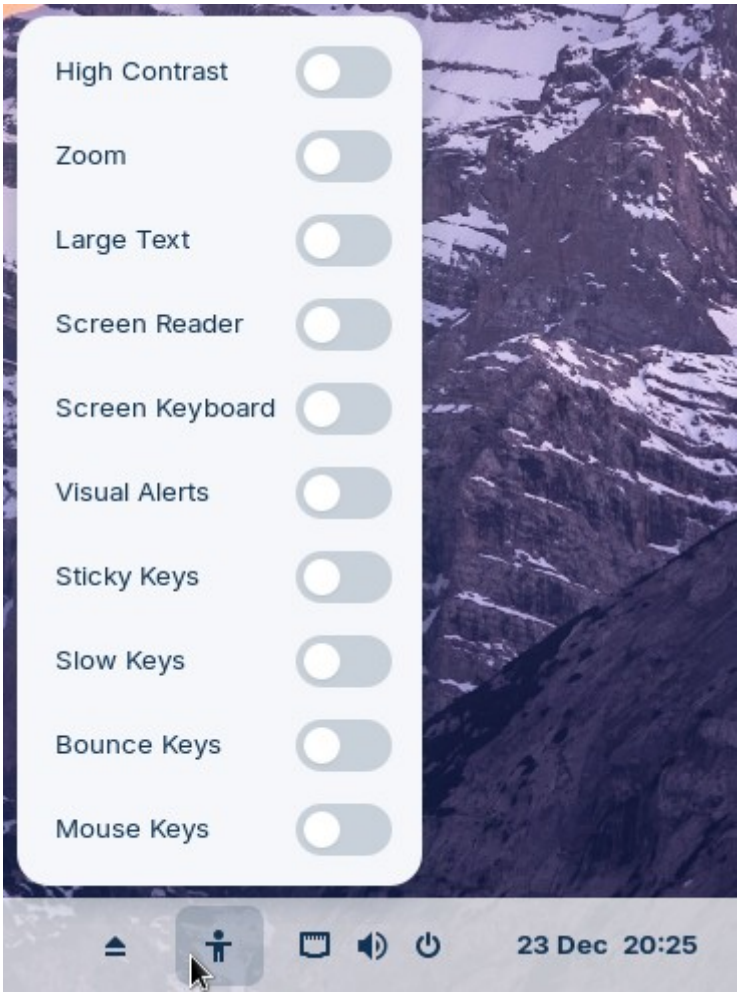
Screen

This is all to do with the Screen Lock settings. Remember Zorin has inherited Gnome Settings, so my comment is aimed at Gnome Devs - why not label the primary title of this section Screen Lock? (It could also be argued that Gnome Devs don’t know how to use the alphabet! Notice how the different sections in Settings are not in Alphabetical Order? Also notice that they don’t split items into different sections like you would get on other Desktop Environments!)

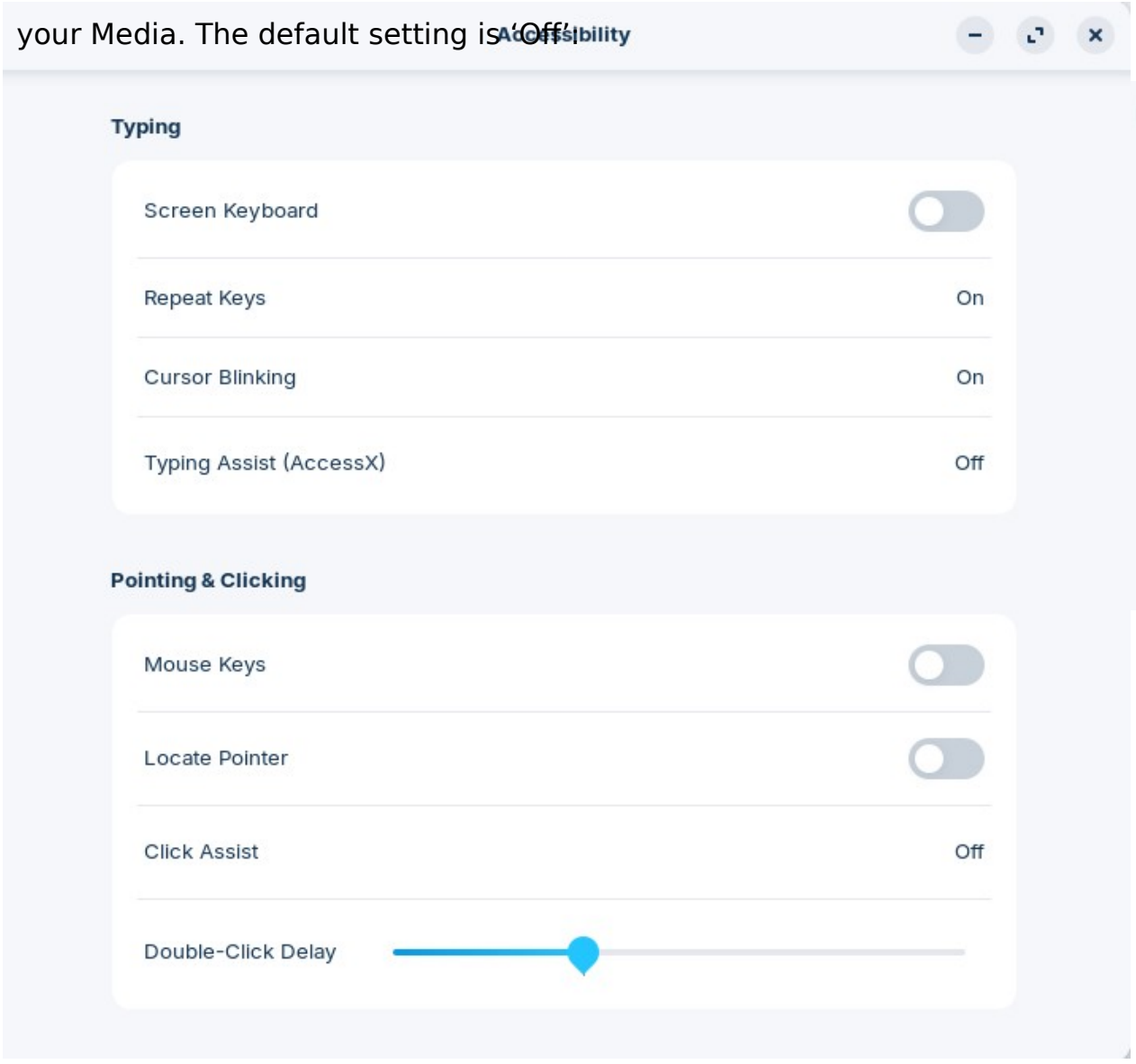


Online Accounts - Connect to your data in the cloud. The following services are available (Facebook is not listed because the Gnome Developers have never addressed the issue for over 7 years! That said, perhaps Facebook is not GNU/Linux friendly! I've never used Facebook, nor have any intention to do so in the future!)




High Contrast
Zoom
Large Text
Screen Reader
Screen Keyboard
Visual Alerts
Sticky Keys
Slow Keys
Bounce Keys
Mouse Keys
23 Dec 20:25

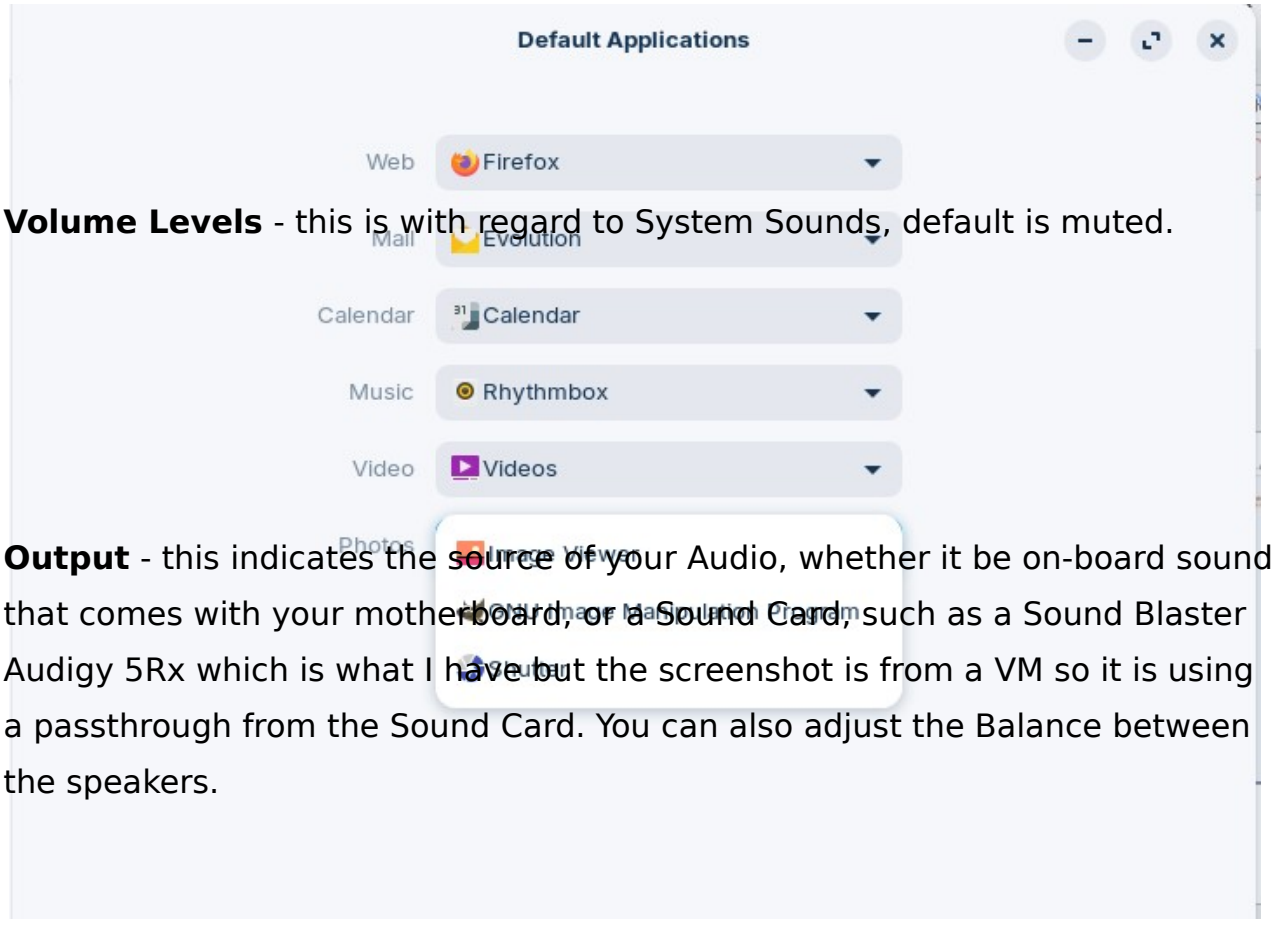
Sharing - let’s you choose whether to share your Desktop remotely, or share your Media. The default setting is ‘Off’.



Sound

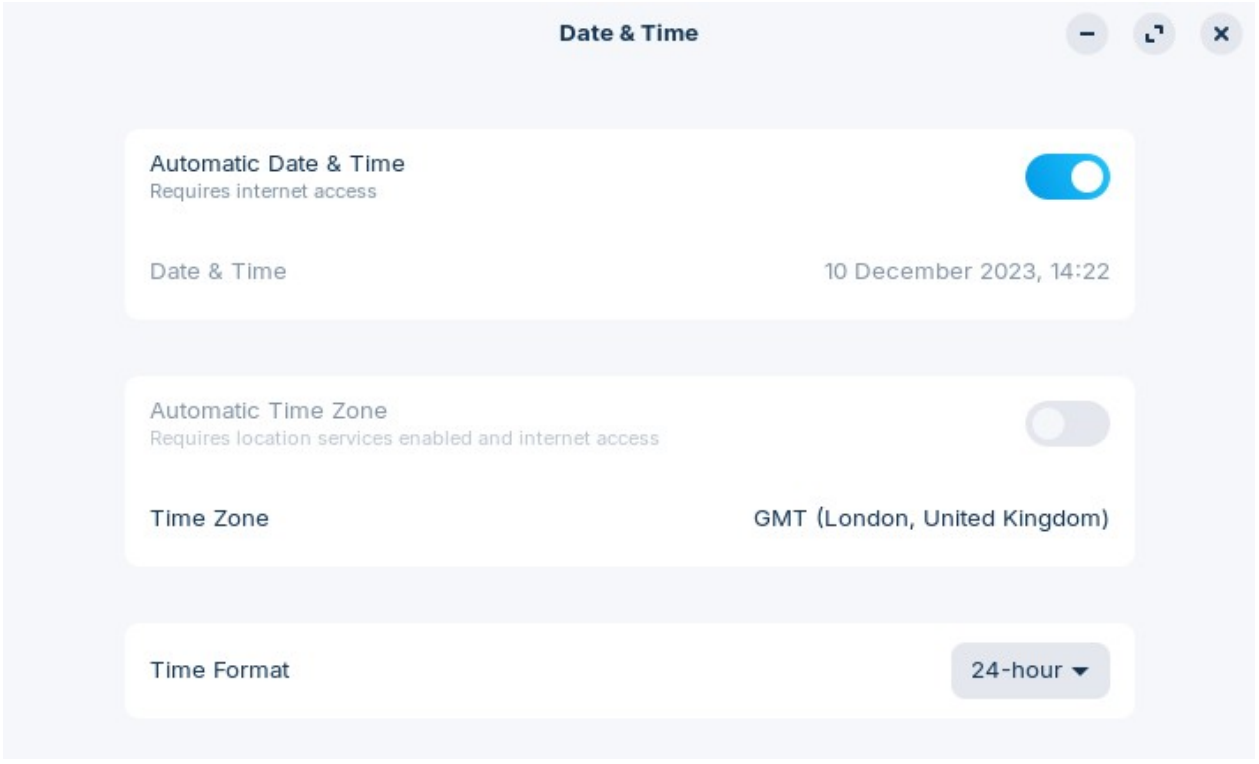
This item is split into 5 subcategories:

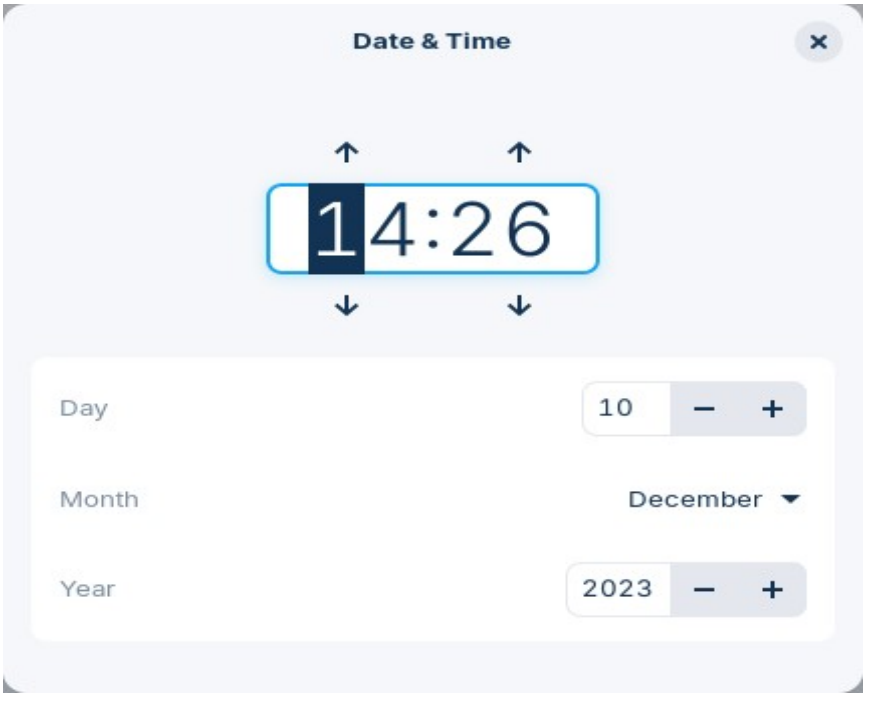
System Volume - This is basically the ‘Global’ settings of your Sound Volume.



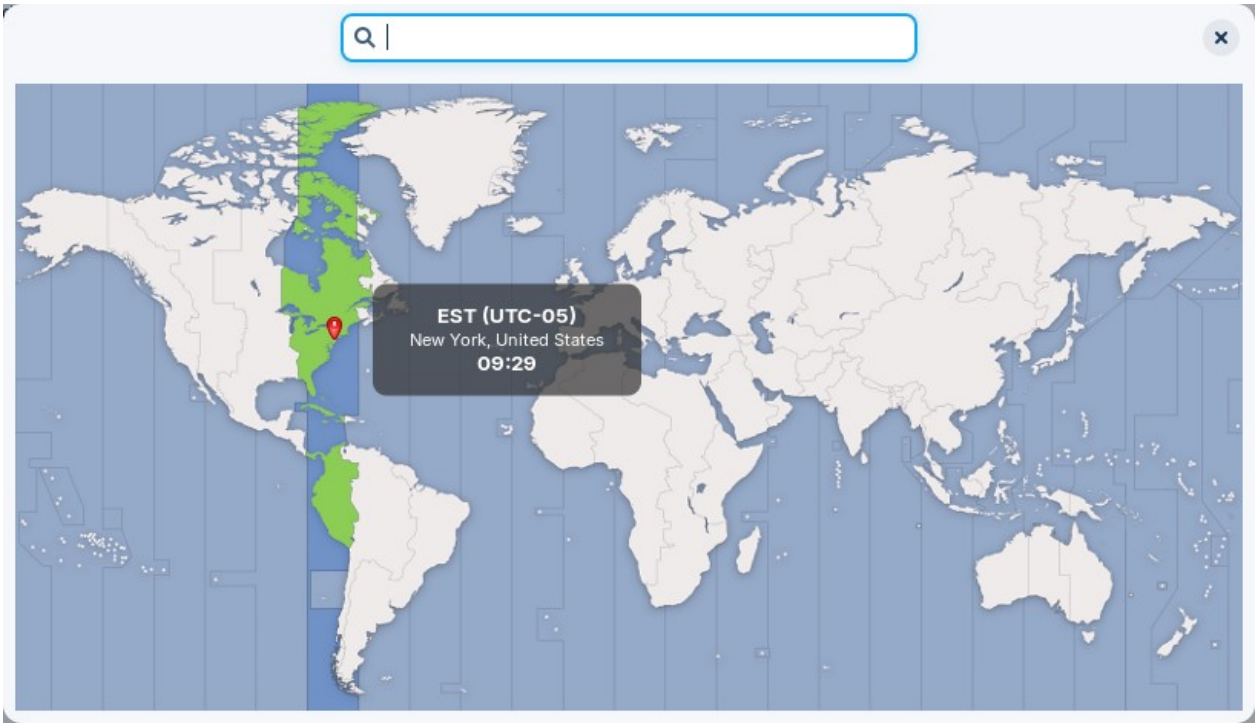
Volume Levels - this is with regard to System Sounds, default is muted.

Output - this indicates the source of your Audio, whether it be on-board sound that comes with your motherboard, or a Sound Card, such as a Sound Blaster Audigy 5Rx which is what I have but the screenshot is from a VM so it is using a passthrough from the Sound Card. You can also adjust the Balance between the speakers.


Date & Time
Automatic Date & Time
Requires internet access
Date & Time
10 December 2023, 14:22
Automatic Time Zone
Requires location services enabled and internet access
Time Zone
GMT (London, United Kingdom)
Time Format
24-hour


Date & Time
14:26
Day
10
Month
December
Year
2023

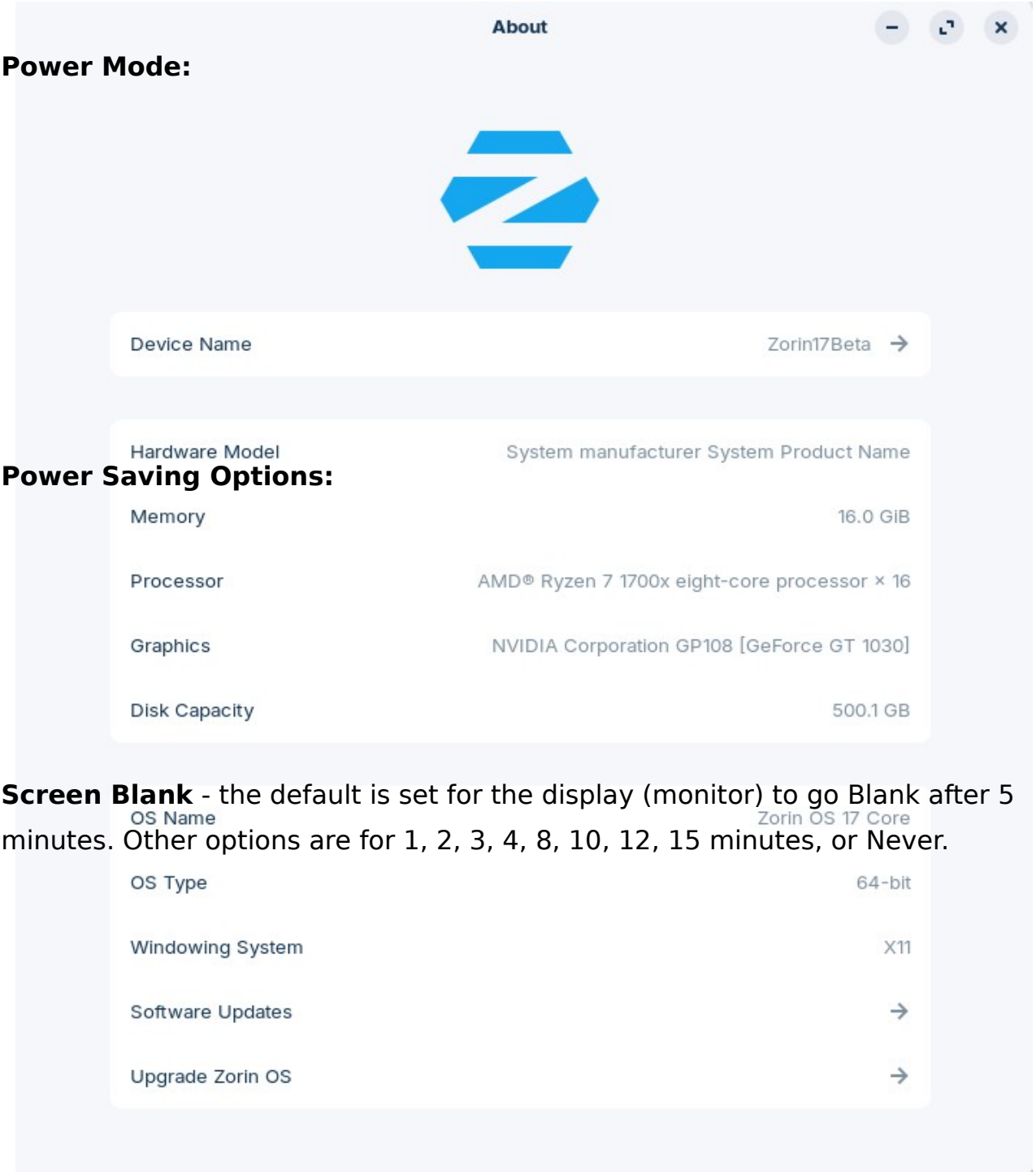
Input - The usual default device will be a Microphone, either attached to the jack port of your onboard, or if you have a webcam attached, the drop-down arrow would reveal that.



Power

This is split into two sections, **Power Mode** and **Power Saving Options.**

Power Mode:



Power Saving Options:

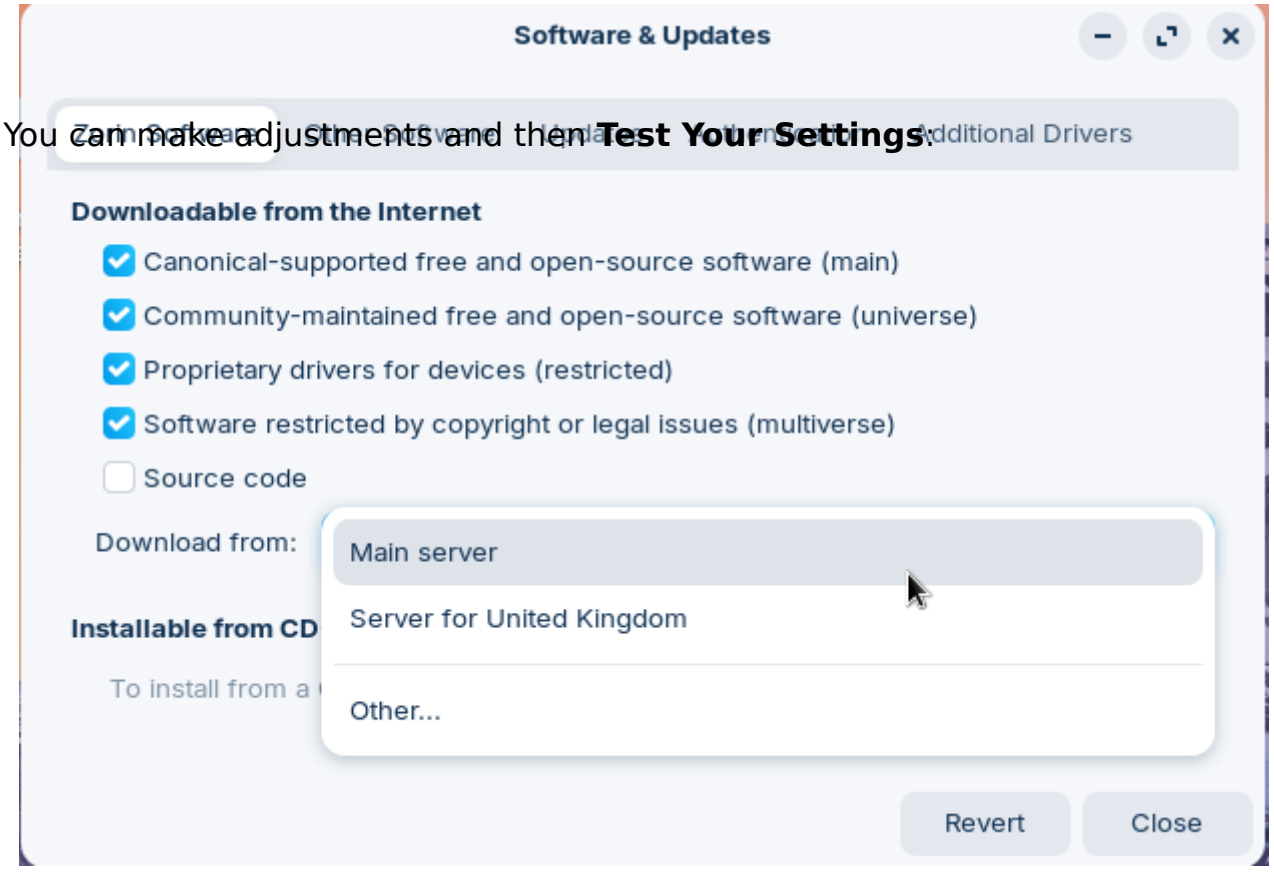
Screen Blank - the default is set for the display (monitor) to go Blank after 5 minutes. Other options are for 1, 2, 3, 4, 8, 10, 12, 15 minutes, or Never.

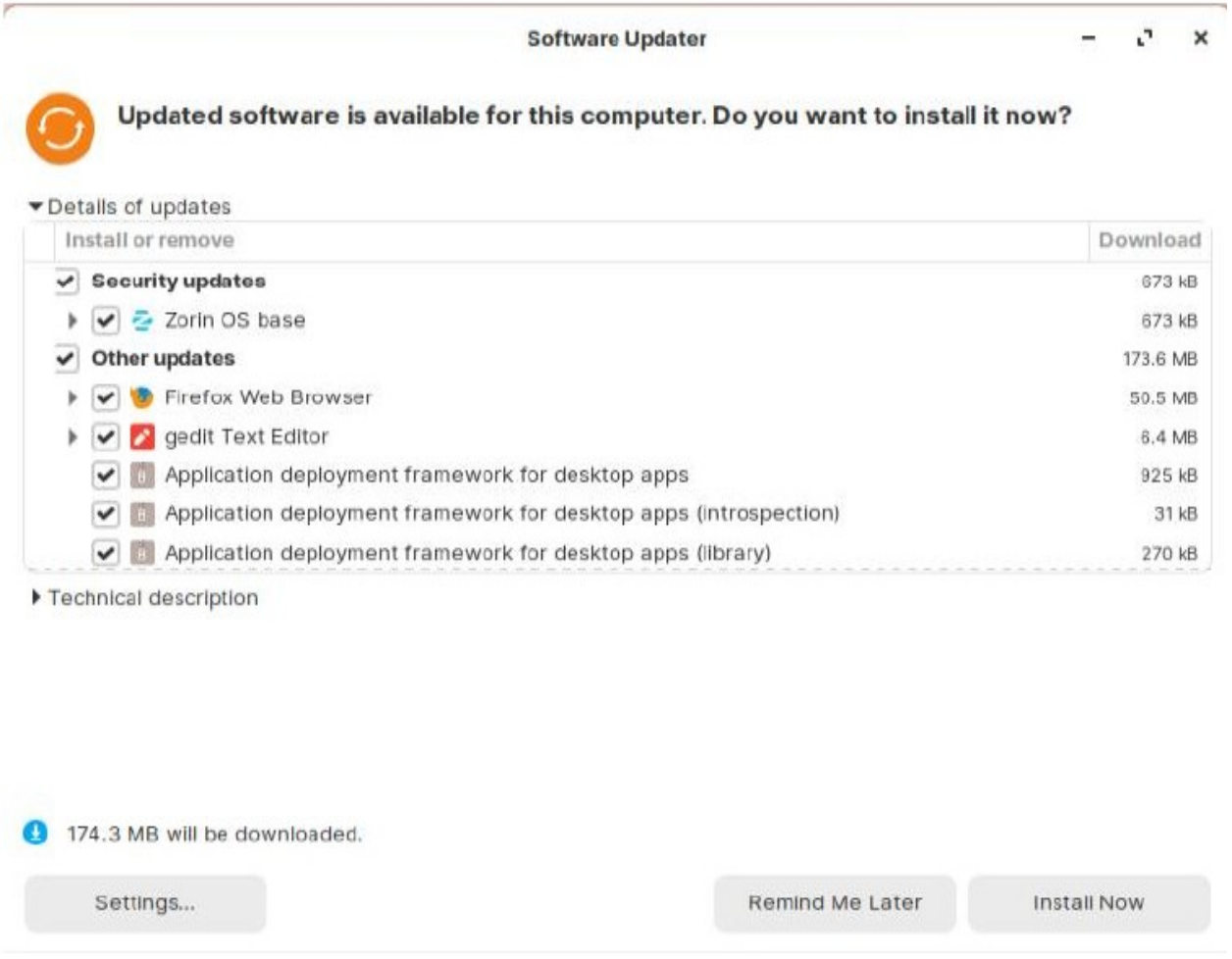
Displays - This section concerns information about your monitor. As the screenshot is from a VM of Zorin 17 Beta, running inside of Zorin 17 Beta, it reports that the Display (make) is unknown.

Night Light requires you to either use Location Services so that the screen changes from a blue hue to a warmer red one, or you can set the time manually to your preferences.

Mouse & Touchpad

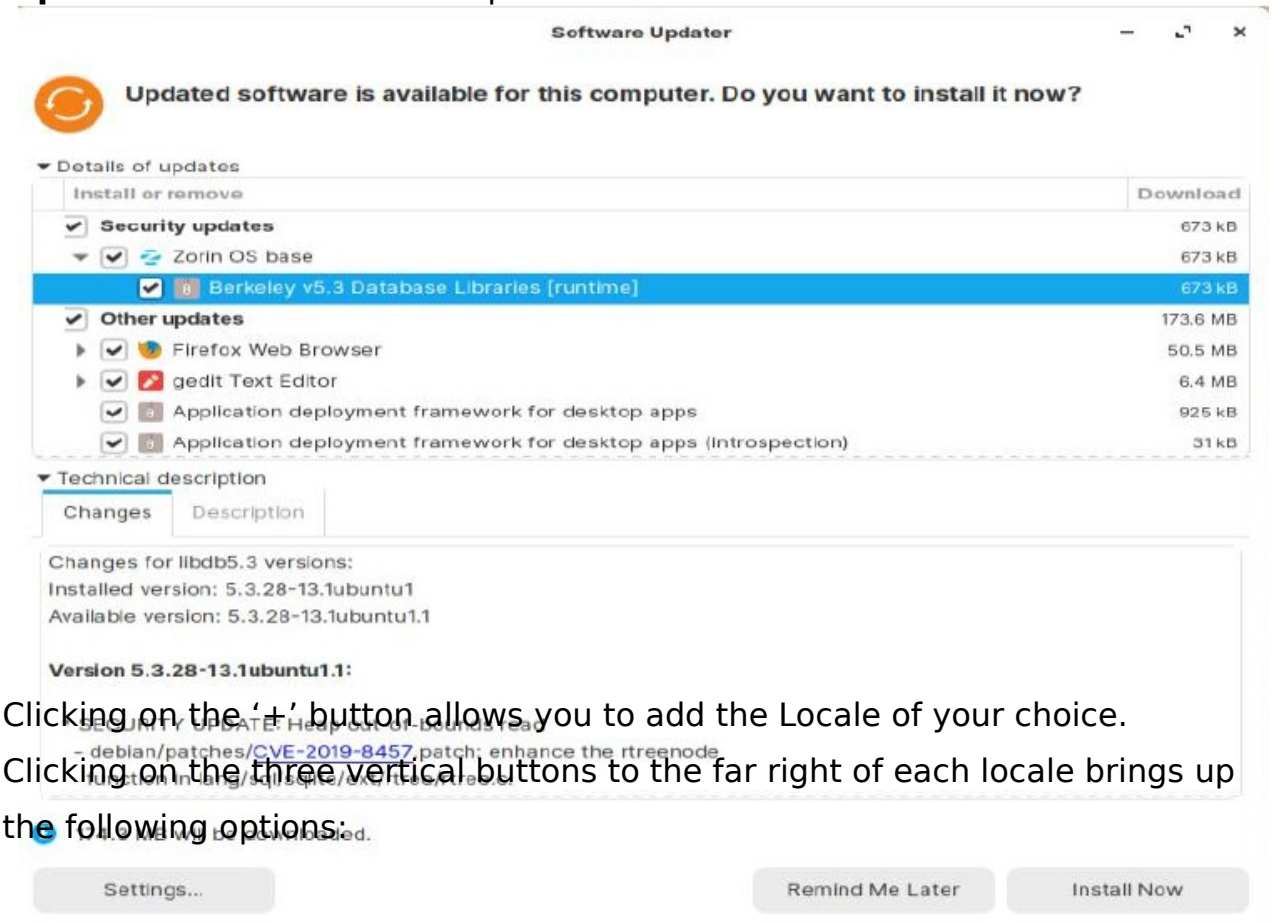
You can make adjustments and then **Test Your Settings**.




Software Updater
Updated software is available for this computer. Do you want to install it now?
Details of updates
Install or remove
Download
Security updates
673 kB
Zorin OS base
673 kB
Other updates
173.6 MB
Firefox Web Browser
50.5 MB
gedit Text Editor
6.4 MB
Application deployment framework for desktop apps
925 kB
Application deployment framework for desktop apps (introspection)
31 kB
Application deployment framework for desktop apps (library)
270 kB
Technical description
174.3 MB will be downloaded.
Settings...
Remind Me Later
Install Now

Keyboard - This section has four sub categories, **Input Sources, Input Source Switching, Special Character Entry,** and **Keyboard Shortcuts.**

Input Sources: The default options are shown.



Clicking on the '+' button allows you to add the Locale of your choice.

Clicking on the three vertical buttons to the far right of each locale brings up the following options:

Printers

Before looking at printer installation we need to disable ‘autodiscovery’, otherwise you will end up with multiple instances of your printer!

So first off, open a a Terminal (Ctrl+ Alt+ T or Menu | Utilities | Terminal and enter:

```
sudo systemctl stop cups-browsed
```

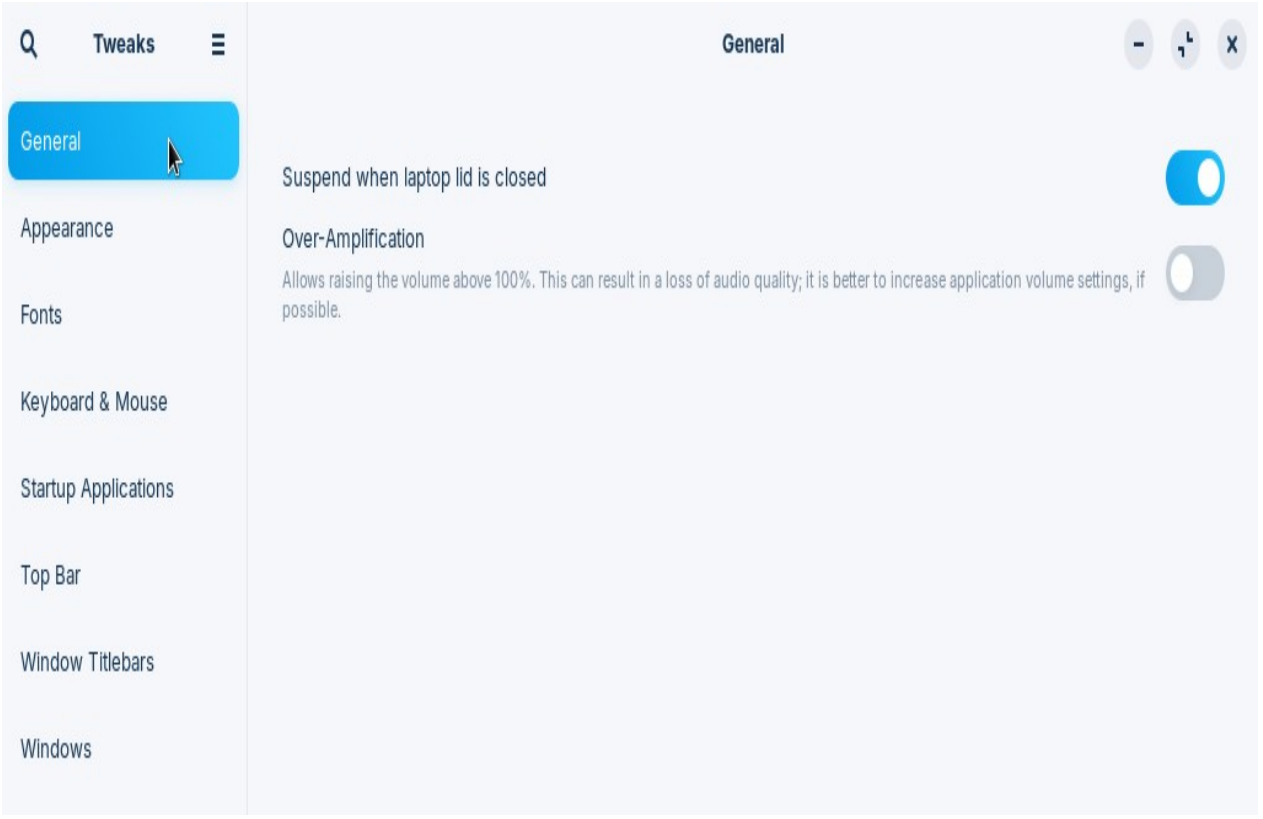
Followed by:

```
sudo systemctl disable cups-browsed
```

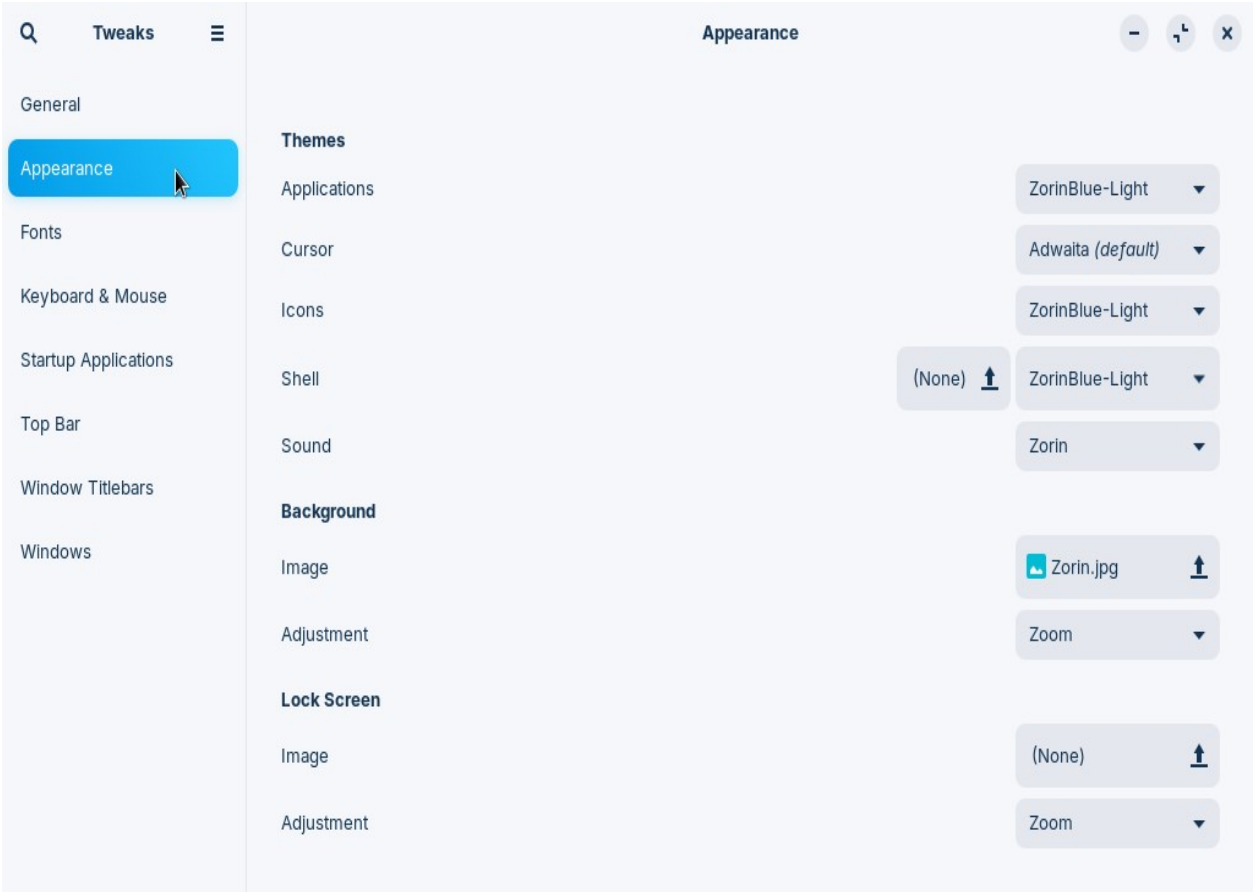
Once you have done this enter:

```
sudo system-config-printer
```

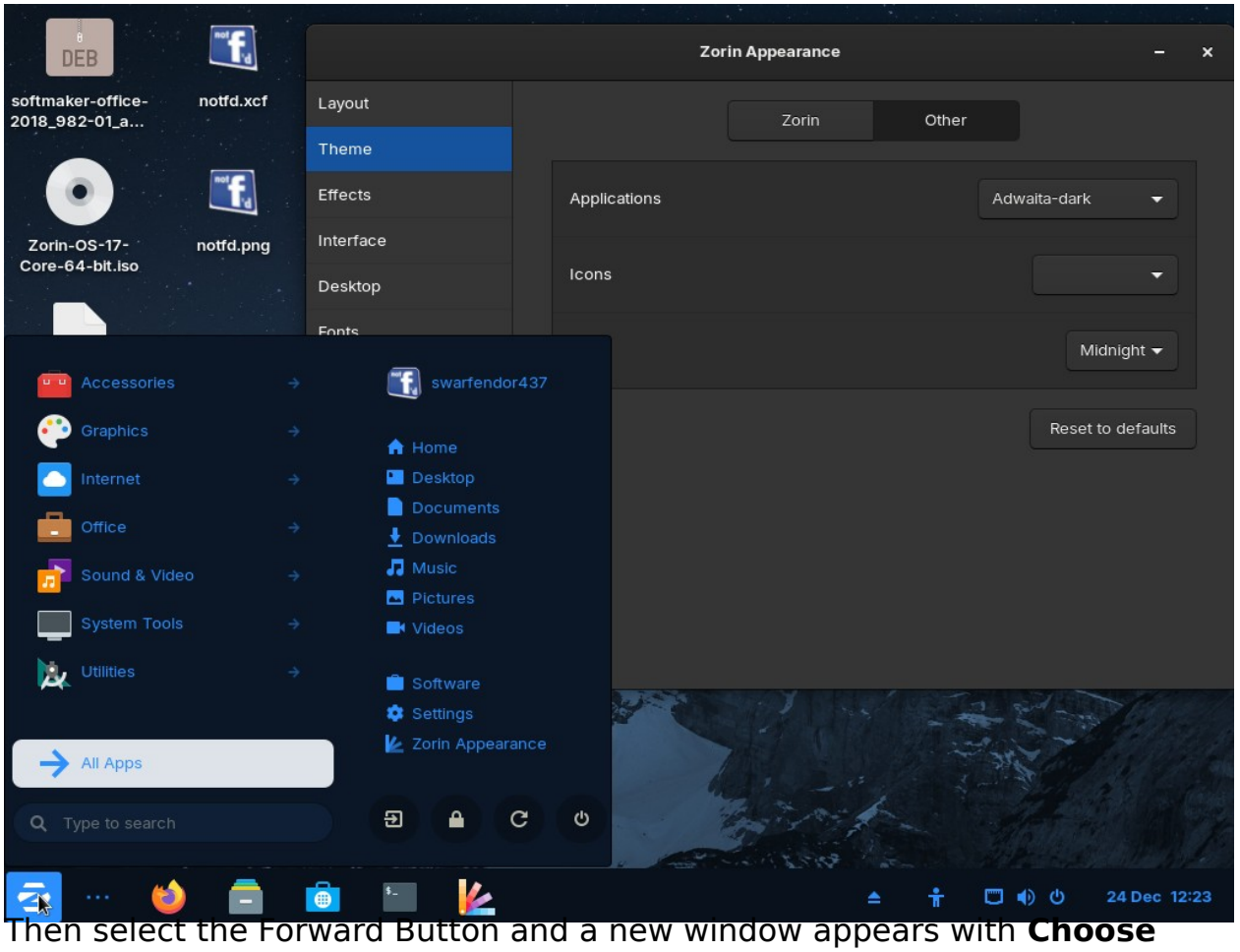
This brings up the following interface and as you have launched it with ‘root’ privileges (sudo command) it will be better for install. You will need to provide your user password, or the **administrator** password if you have setup a separate admin user, with yourself as a standard user like me.


Tweaks
General
Appearance
Fonts
Keyboard & Mouse
Startup Applications
Top Bar
Window Titlebars
Windows
General
Suspend when laptop lid is closed
Over-Amplification
Allows raising the volume above 100%. This can result in a loss of audio quality; it is better to increase application volume settings, if possible.

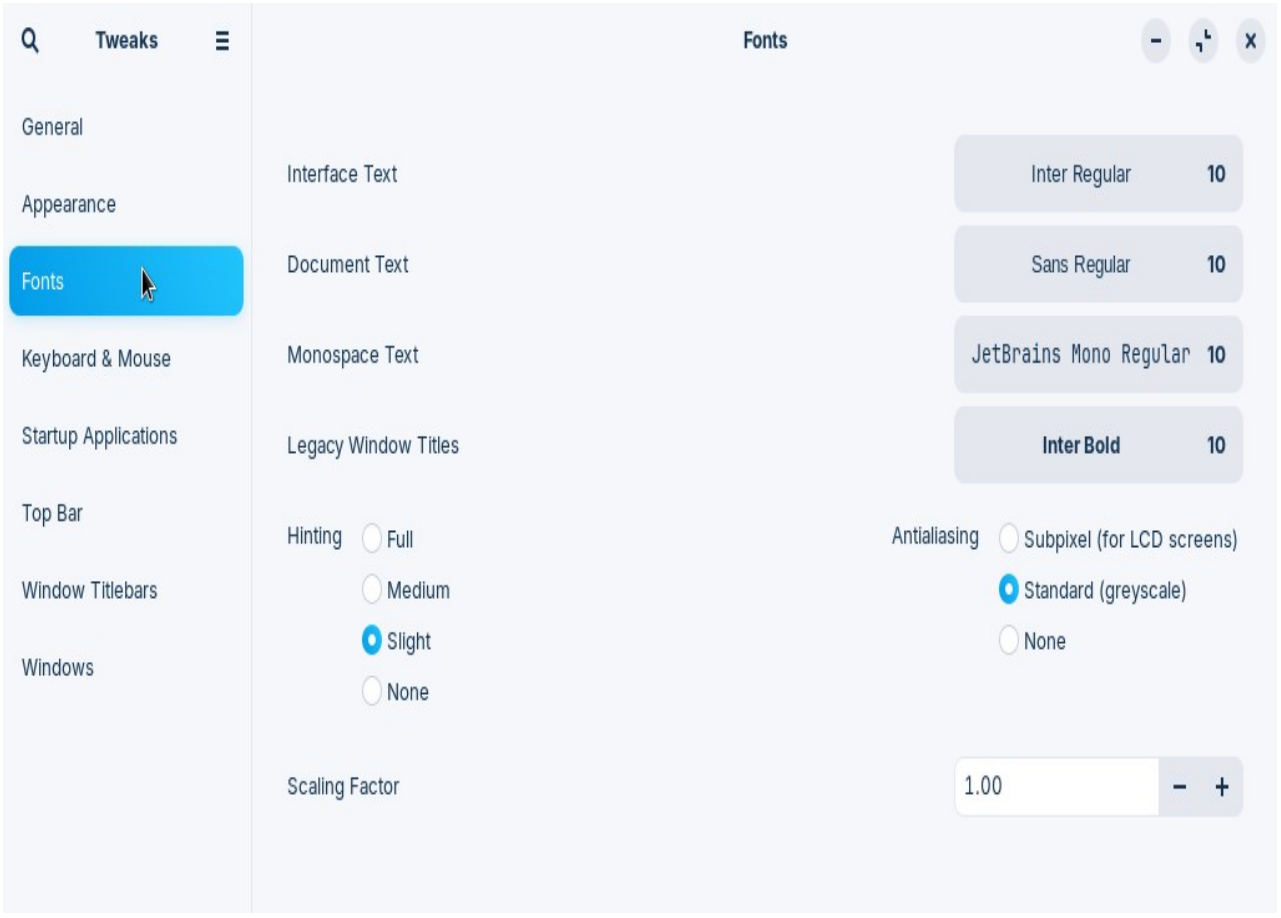
Click on **Add** and the following interface appears:



If you see something like the top entry here, you may think Printers application has detected the printer is connected via USB, but it is **driverless**:

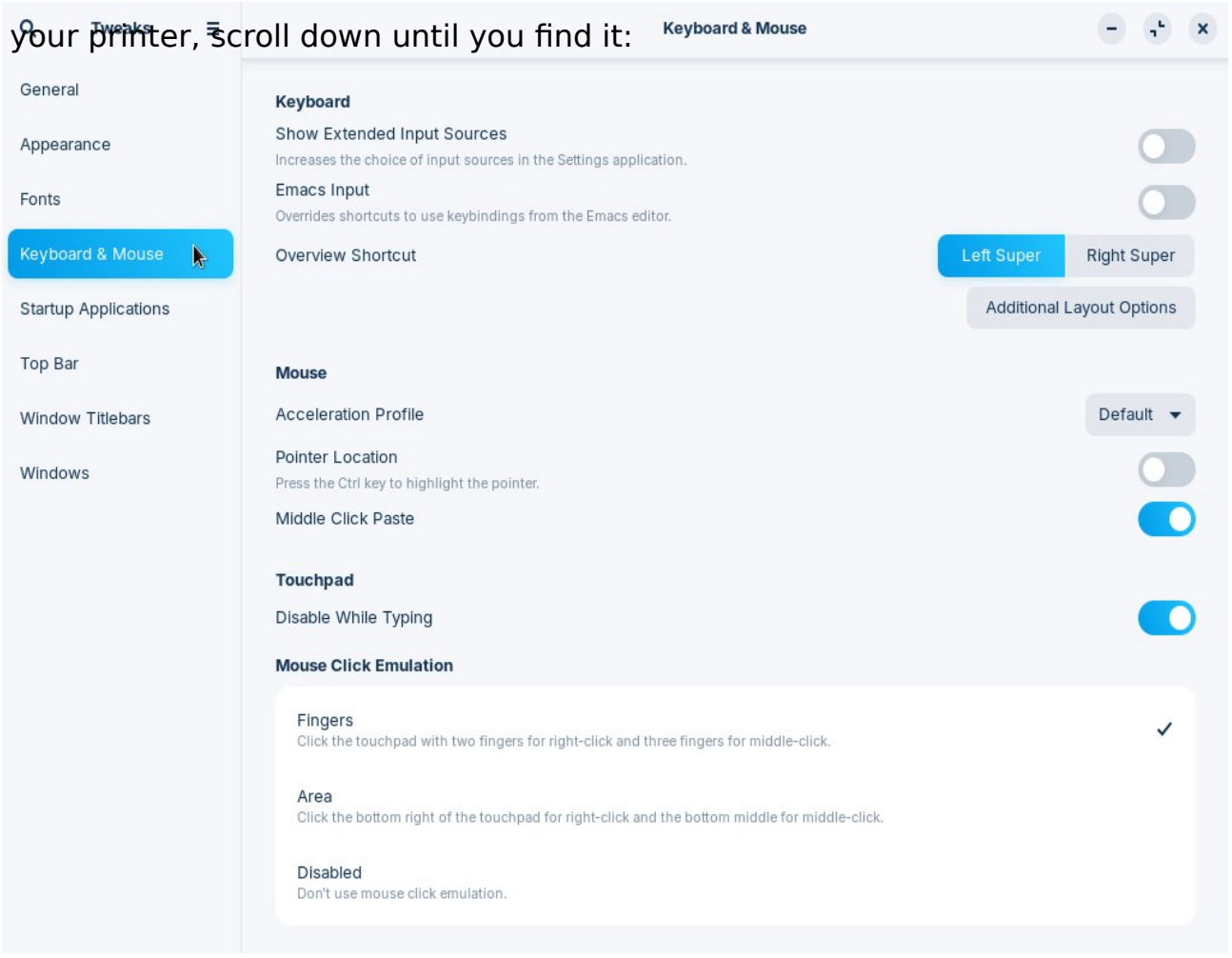


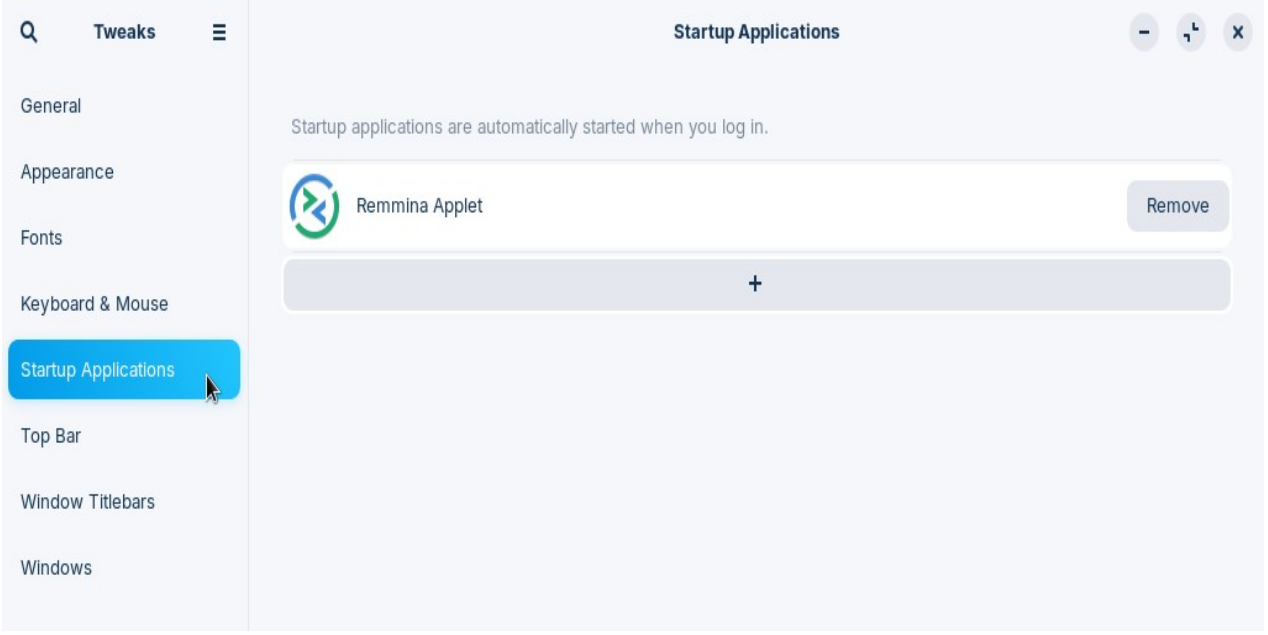
Then select the Forward Button and a new window appears with **Choose Driver** as shown on the next page.



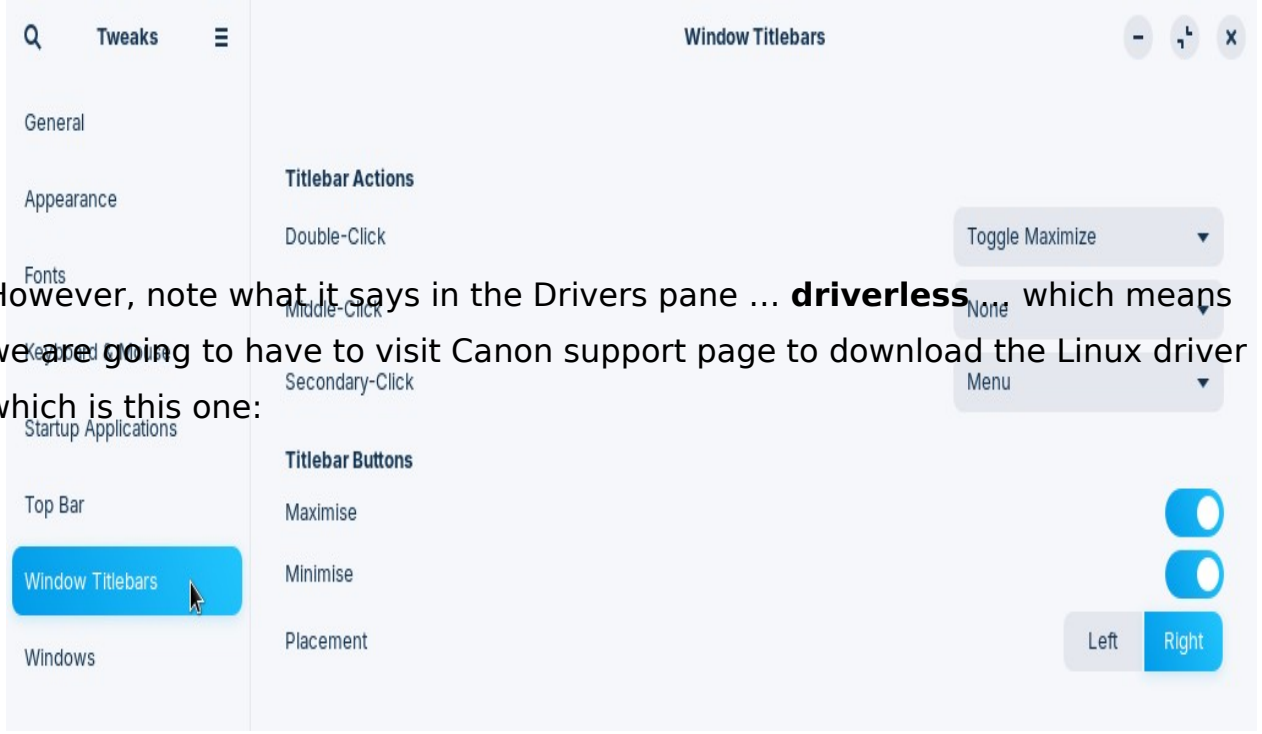
You will need to scroll down until you see the manufacturer’s name of your printer. In my case it is Canon. And once we have found the correct name, select **Forward** bottom right of the window.

A window now appears with numerous models made by the manufacturer of your printer, scroll down until you find it:



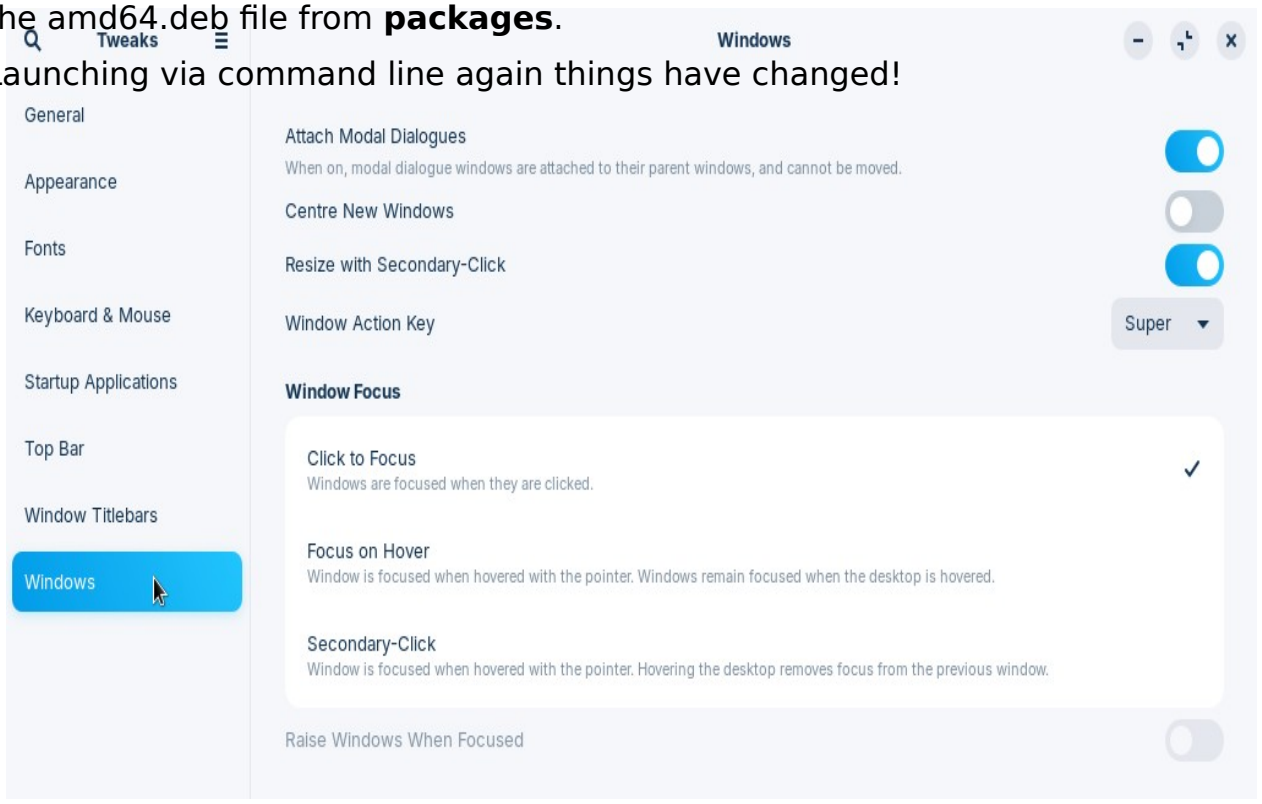


In my case, for my Pixma TS-8151 printer I need to choose the TS8100 series driver.

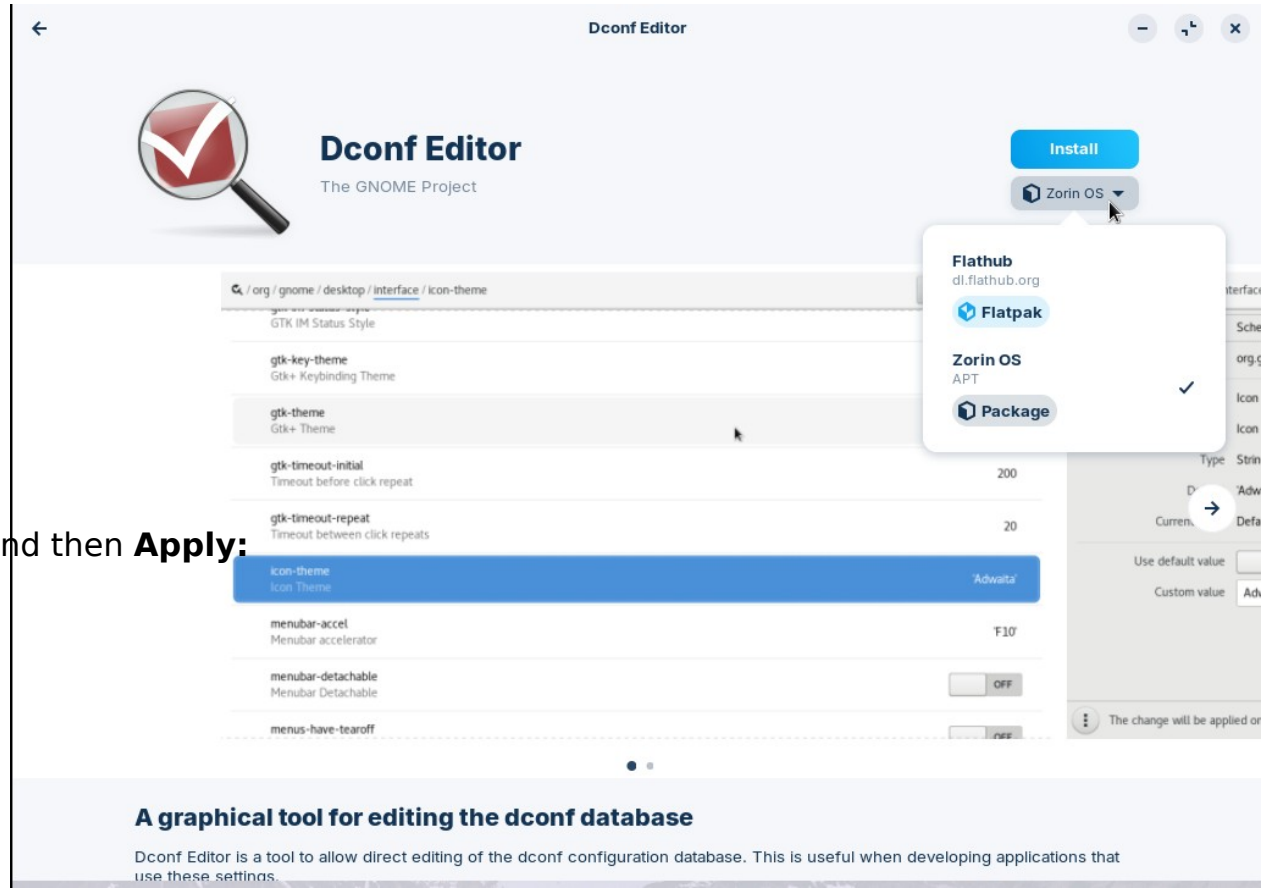


However, note what it says in the Drivers pane ... **driverless** ... which means we are going to have to visit Canon support page to download the Linux driver which is this one:

Just as we did for the Scanner driver we need to extract the tarball and install the amd64.deb file from **packages**.
Launching via command line again things have changed!

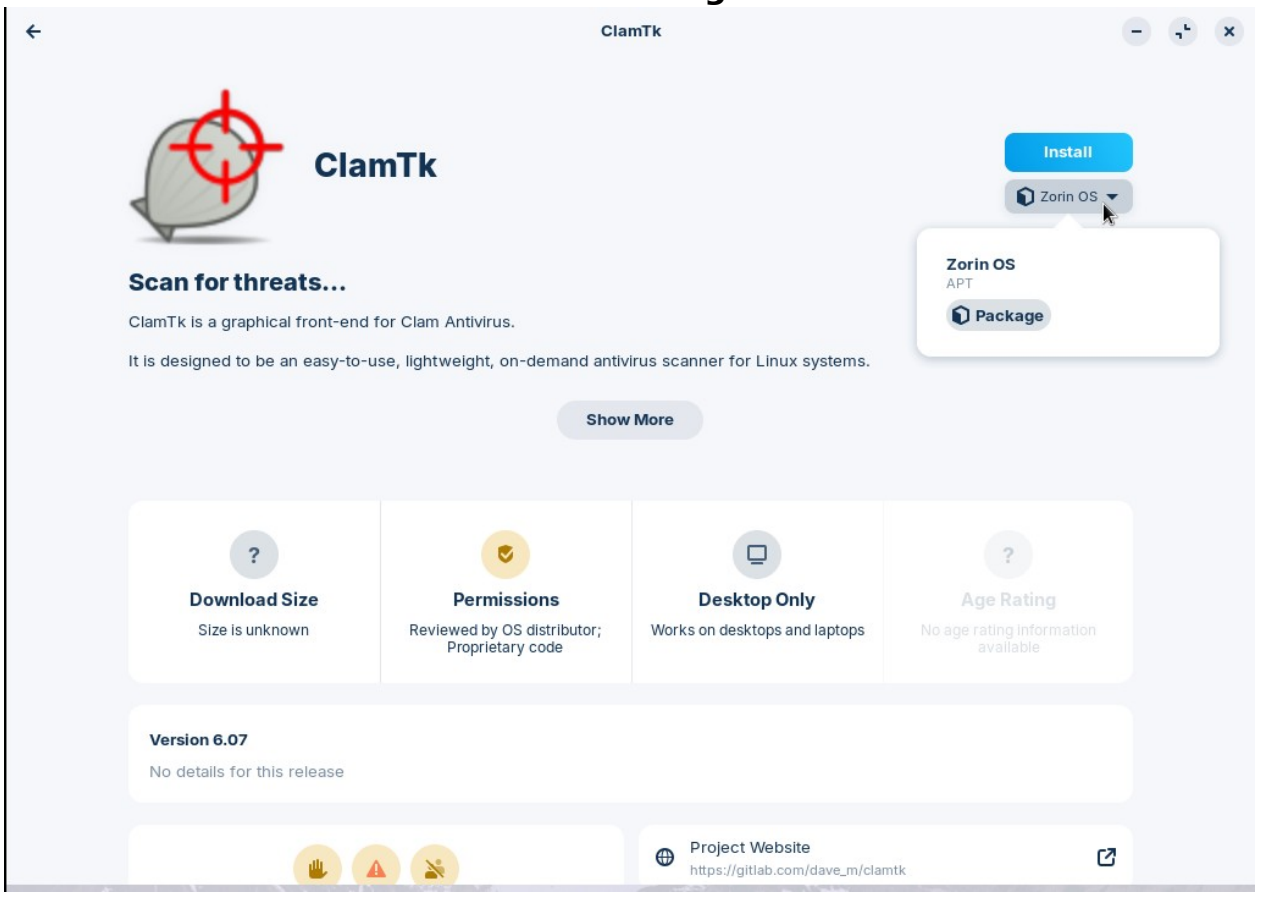

Tweaks
Windows
General
Appearance
Fonts
Keyboard & Mouse
Startup Applications
Top Bar
Window Titlebars
Windows
Attach Modal Dialogues
When on, modal dialogue windows are attached to their parent windows, and cannot be moved.
Centre New Windows
Resize with Secondary-Click
Window Action Key
Super
Window Focus
Click to Focus
Windows are focused when they are clicked.
Focus on Hover
Window is focused when hovered with the pointer. Windows remain focused when the desktop is hovered.
Secondary-Click
Window is focused when hovered with the pointer. Hovering the desktop removes focus from the previous window.
Raise Windows When Focused

A new entry has appeared, and if we click on forward:

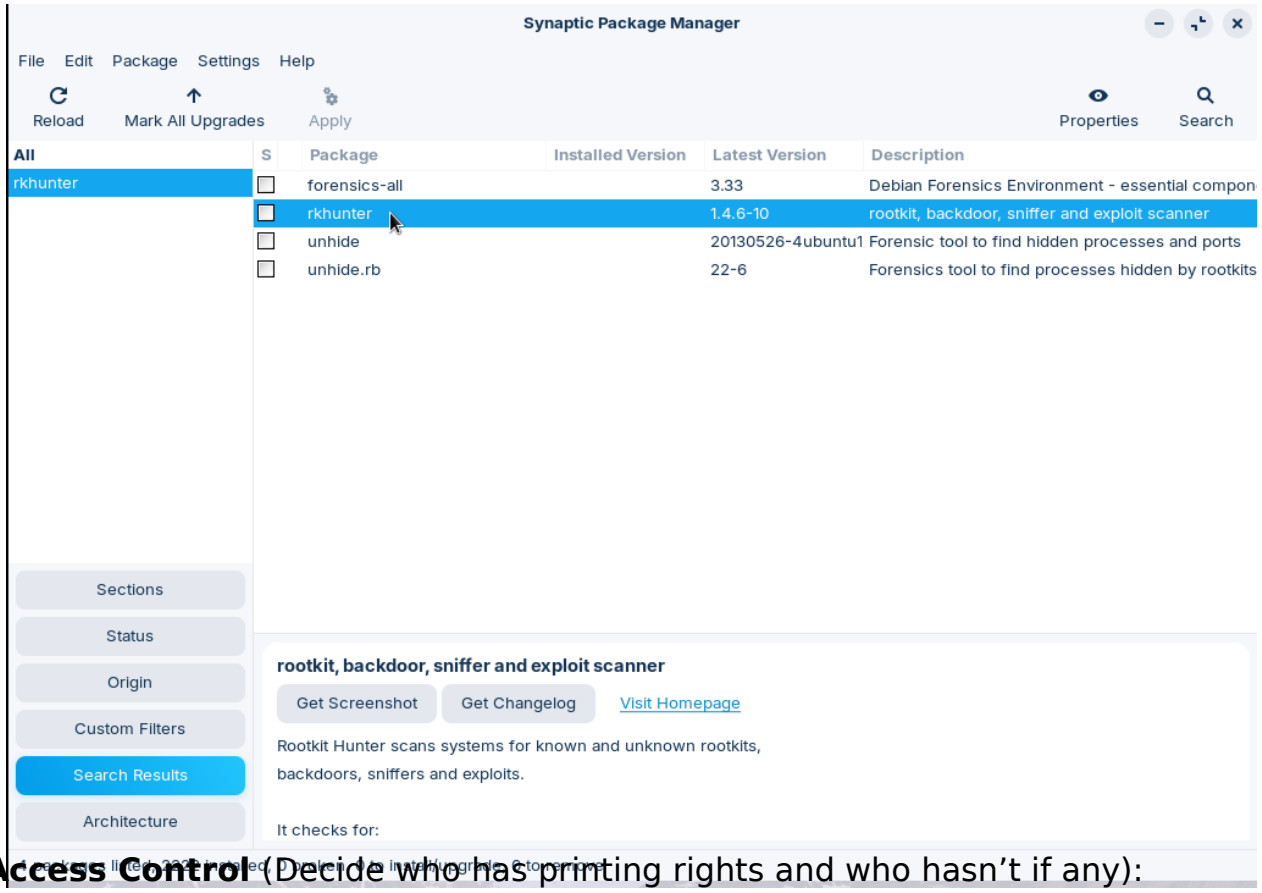


and then **Apply:**

Then right-clicking the printer icon and selecting **Properties** we can see that the Canon 5.50 driver is in use under **Settings**:



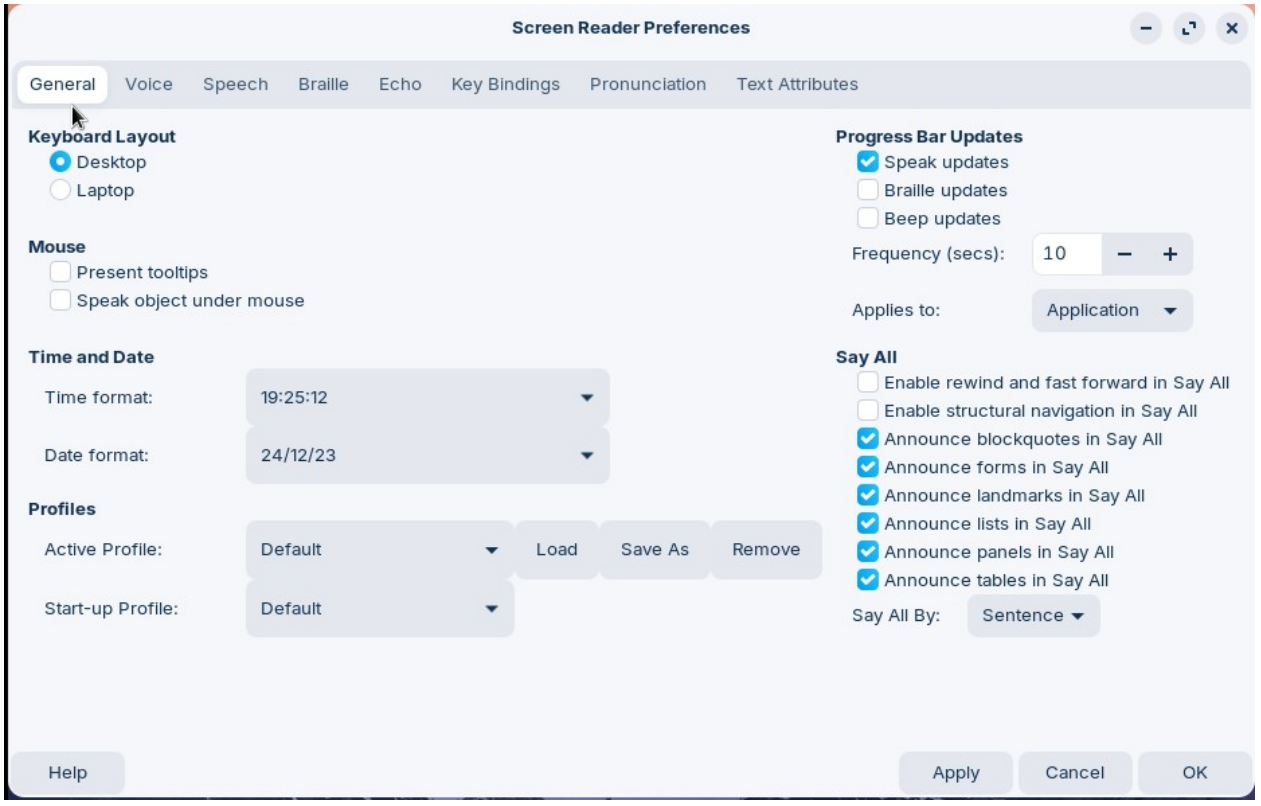
The next item is **Policies:**



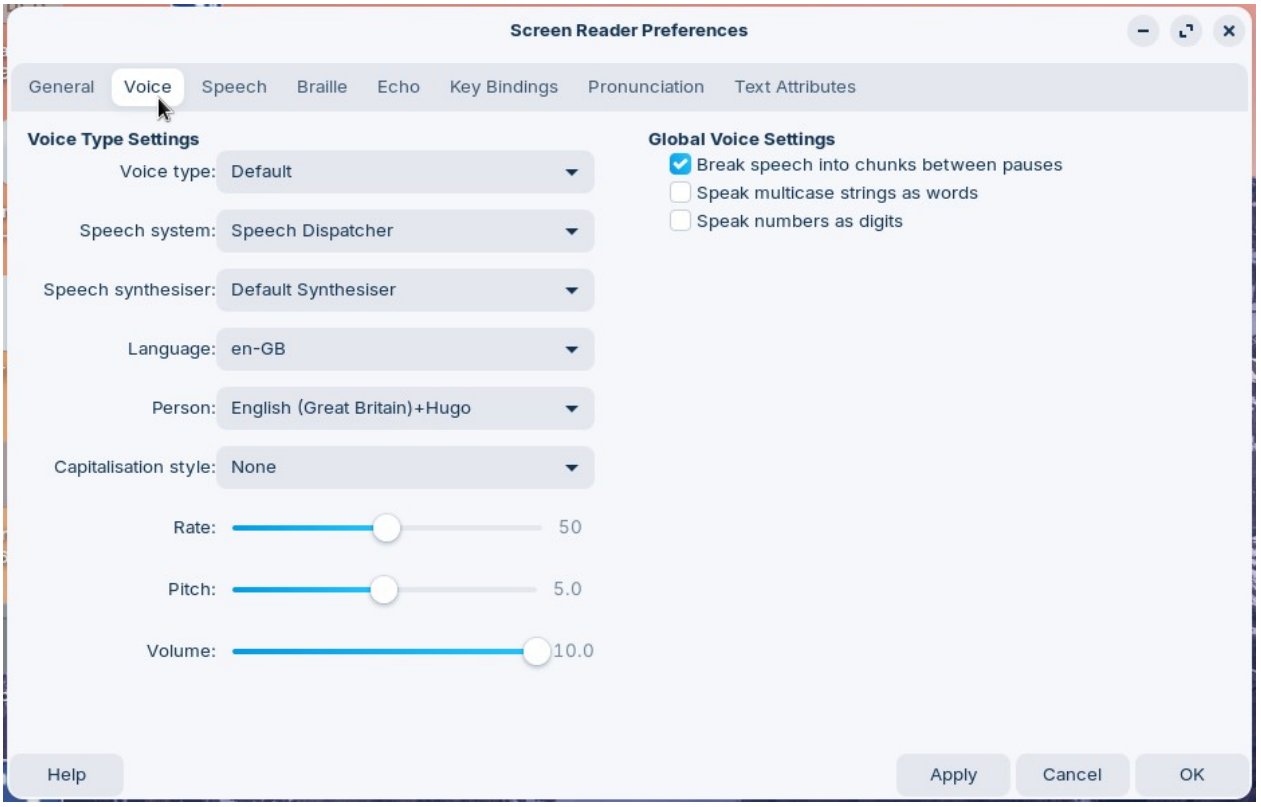
Access Control (Decide who has printing rights and who hasn't if any):

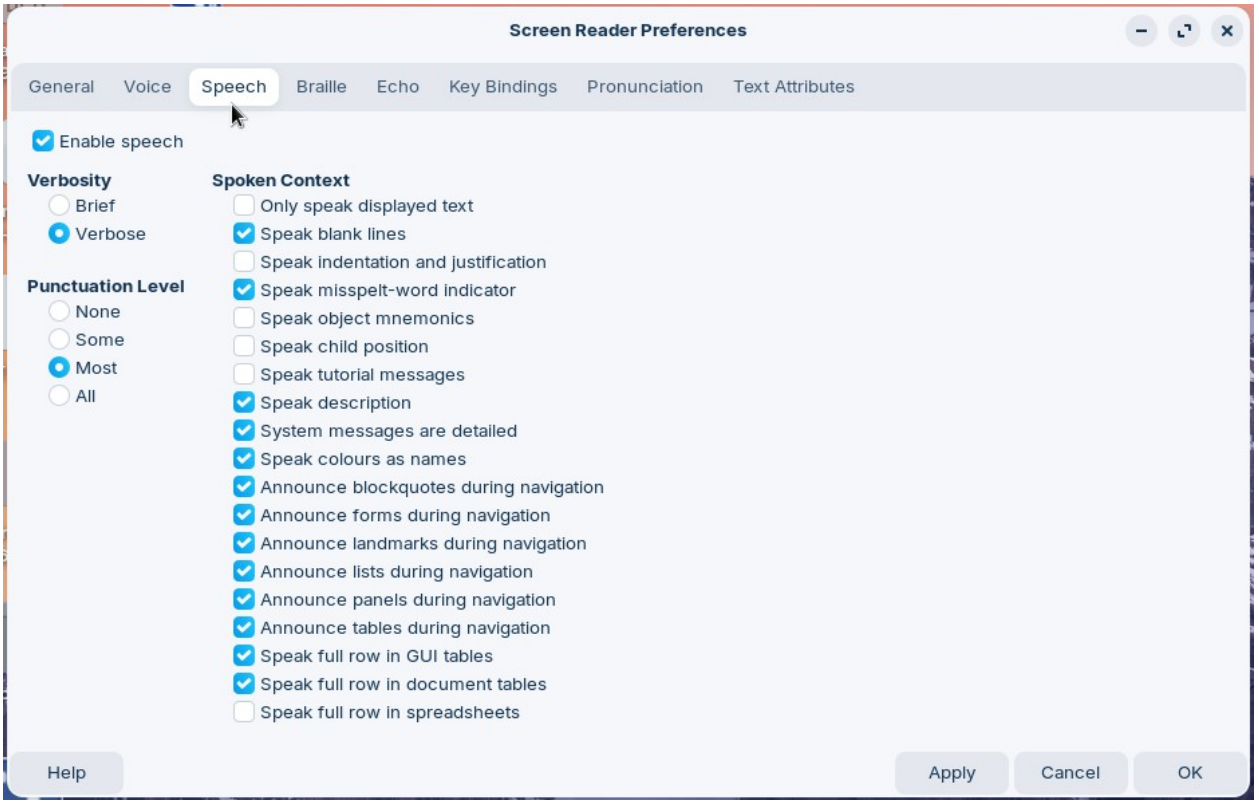
24 Dec 19:08
High Contrast
Zoom
Large Text
Screen Reader
Screen Keyboard
Visual Alerts
Sticky Keys
Slow Keys
Bounce Keys
Mouse Keys
swarfendor437
C
Child
Not listed?
ZORIN

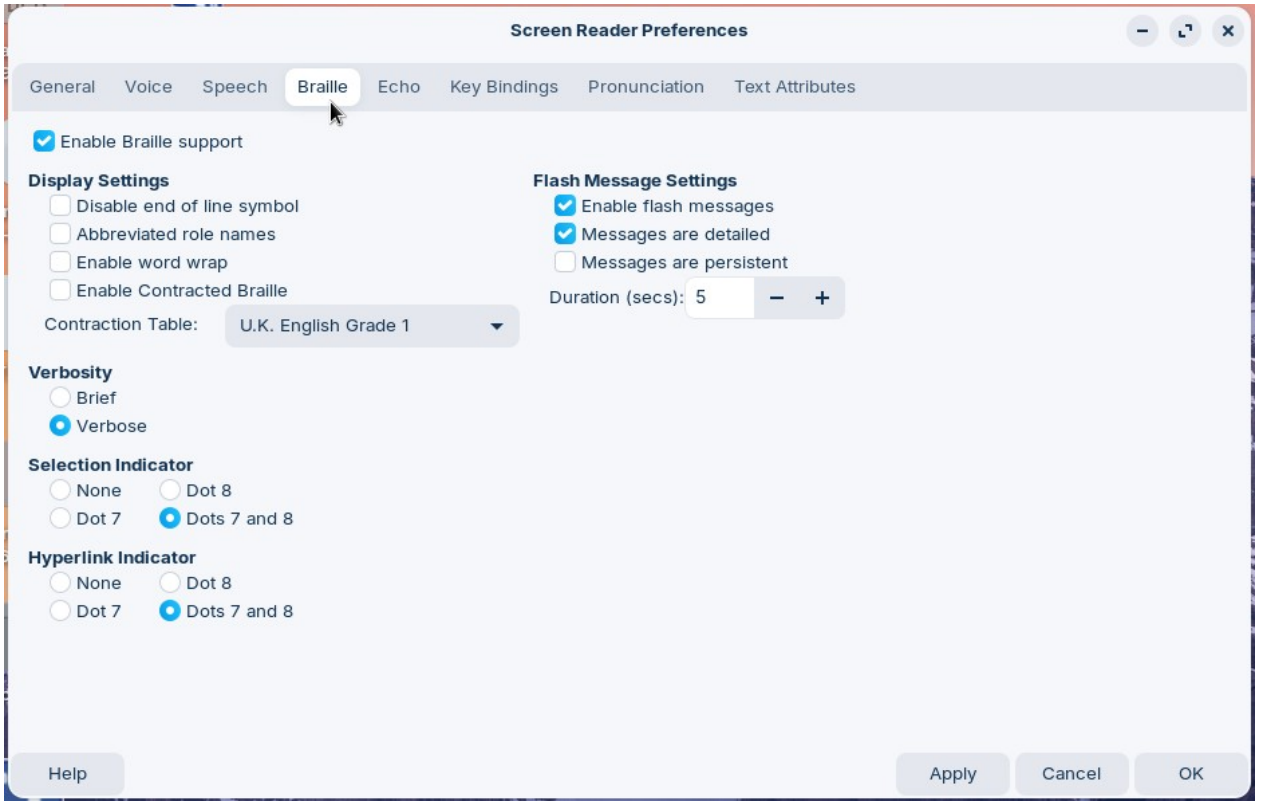
Printer Options:

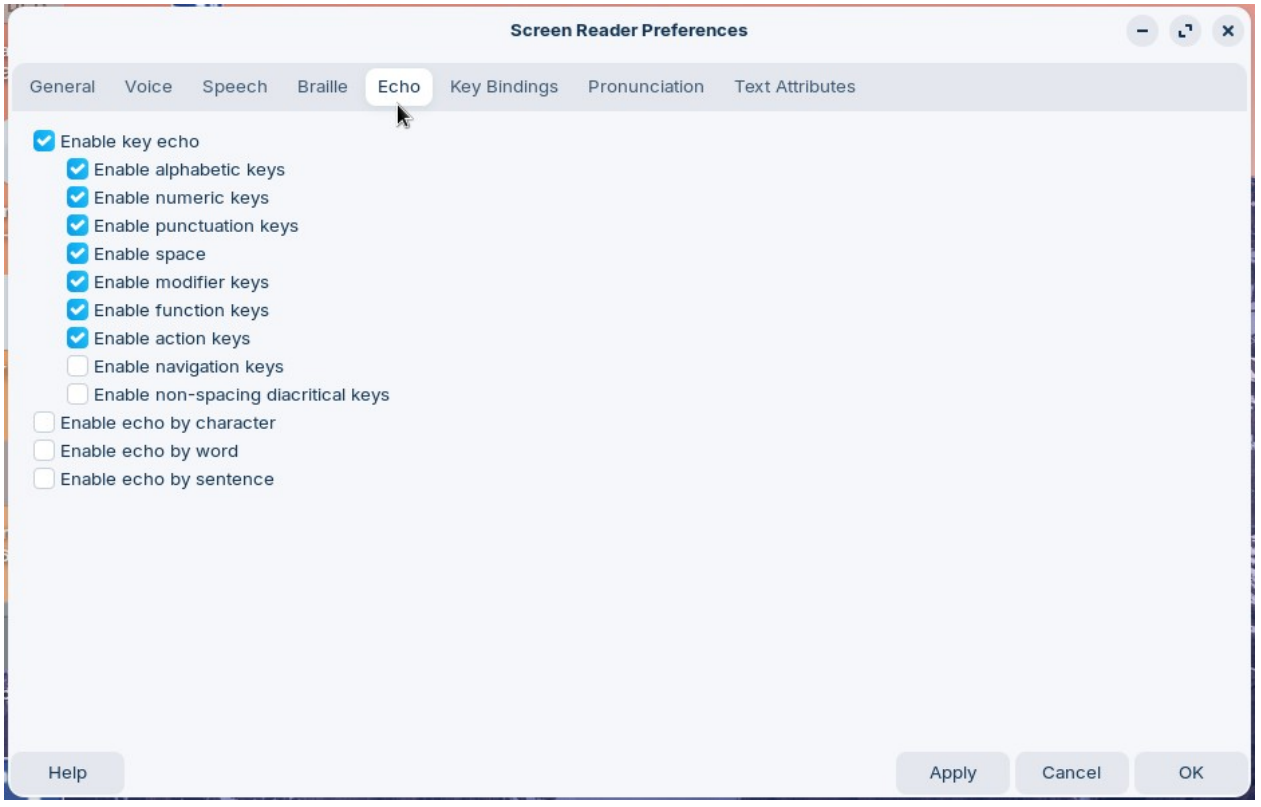


Job Options:


Screen Reader Preferences
General
Voice
Speech
Braille
Echo
Key Bindings
Pronunciation
Text Attributes
Voice Type Settings
Voice type:
Default
Speech system:
Speech Dispatcher
Speech synthesiser:
Default Synthesiser
Language:
en-GB
Person:
English (Great Britain)+Hugo
Capitalisation style:
None
Rate:
50
Pitch:
5.0
Volume:
10.0
Global Voice Settings
Break speech into chunks between pauses
Speak multicase strings as words
Speak numbers as digits
Help
Apply
Cancel
OK


Screen Reader Preferences
General
Voice
Speech
Braille
Echo
Key Bindings
Pronunciation
Text Attributes
Enable speech
Verbosity
Brief
Verbose
Punctuation Level
None
Some
Most
All
Spoken Context
Only speak displayed text
Speak blank lines
Speak indentation and justification
Speak misspelt-word indicator
Speak object mnemonics
Speak child position
Speak tutorial messages
Speak description
System messages are detailed
Speak colours as names
Announce blockquotes during navigation
Announce forms during navigation
Announce landmarks during navigation
Announce lists during navigation
Announce panels during navigation
Announce tables during navigation
Speak full row in GUI tables
Speak full row in document tables
Speak full row in spreadsheets
Help
Apply
Cancel
OK

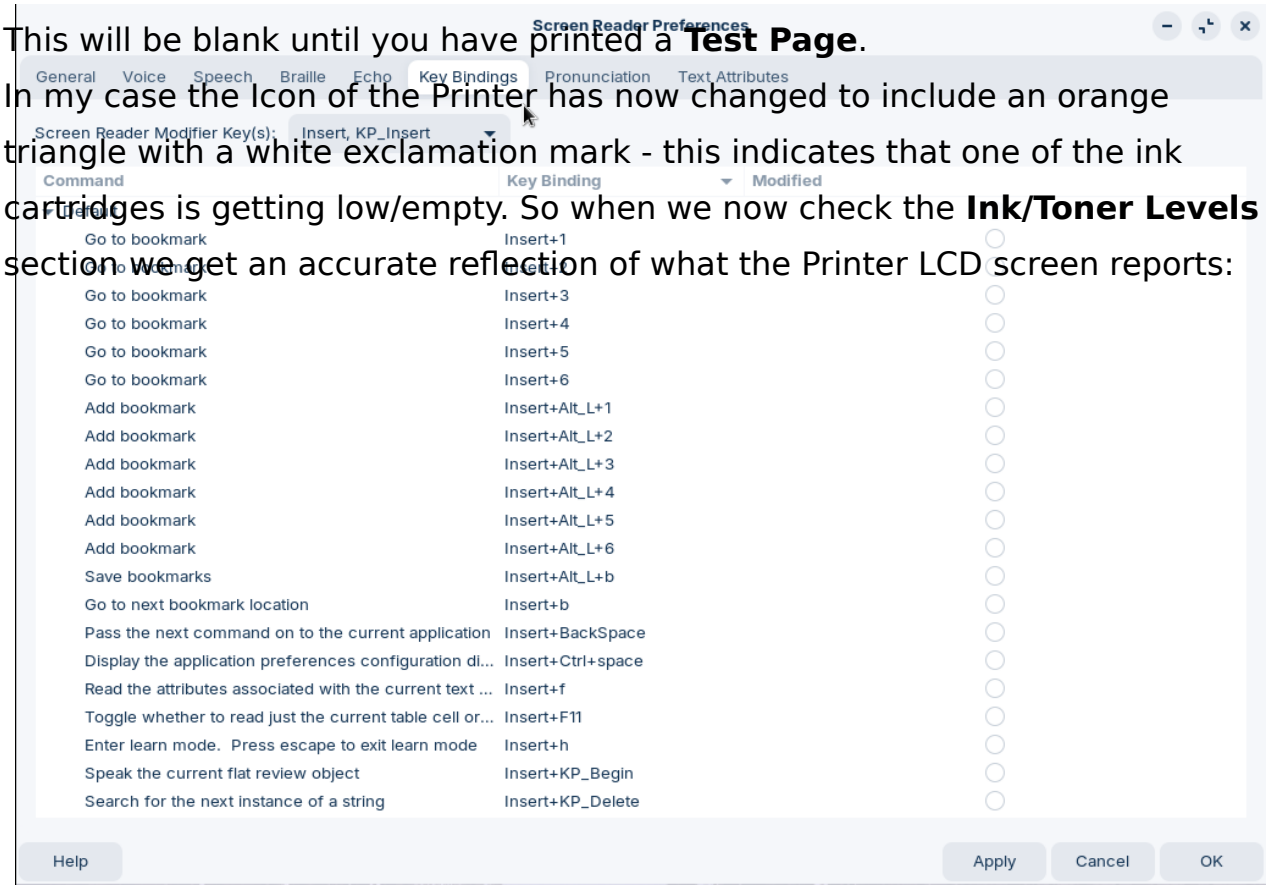

Screen Reader Preferences
General
Voice
Speech
Braille
Echo
Key Bindings
Pronunciation
Text Attributes
Enable Braille support
Display Settings
Disable end of line symbol
Abbreviated role names
Enable word wrap
Enable Contracted Braille
Contraction Table:
U.K. English Grade 1
Flash Message Settings
Enable flash messages
Messages are detailed
Messages are persistent
Duration (secs): 5
Verbosity
Brief
Verbose
Selection Indicator
None
Dot 8
Dot 7
Dots 7 and 8
Hyperlink Indicator
None
Dot 8
Dot 7
Dots 7 and 8
Help
Apply
Cancel
OK

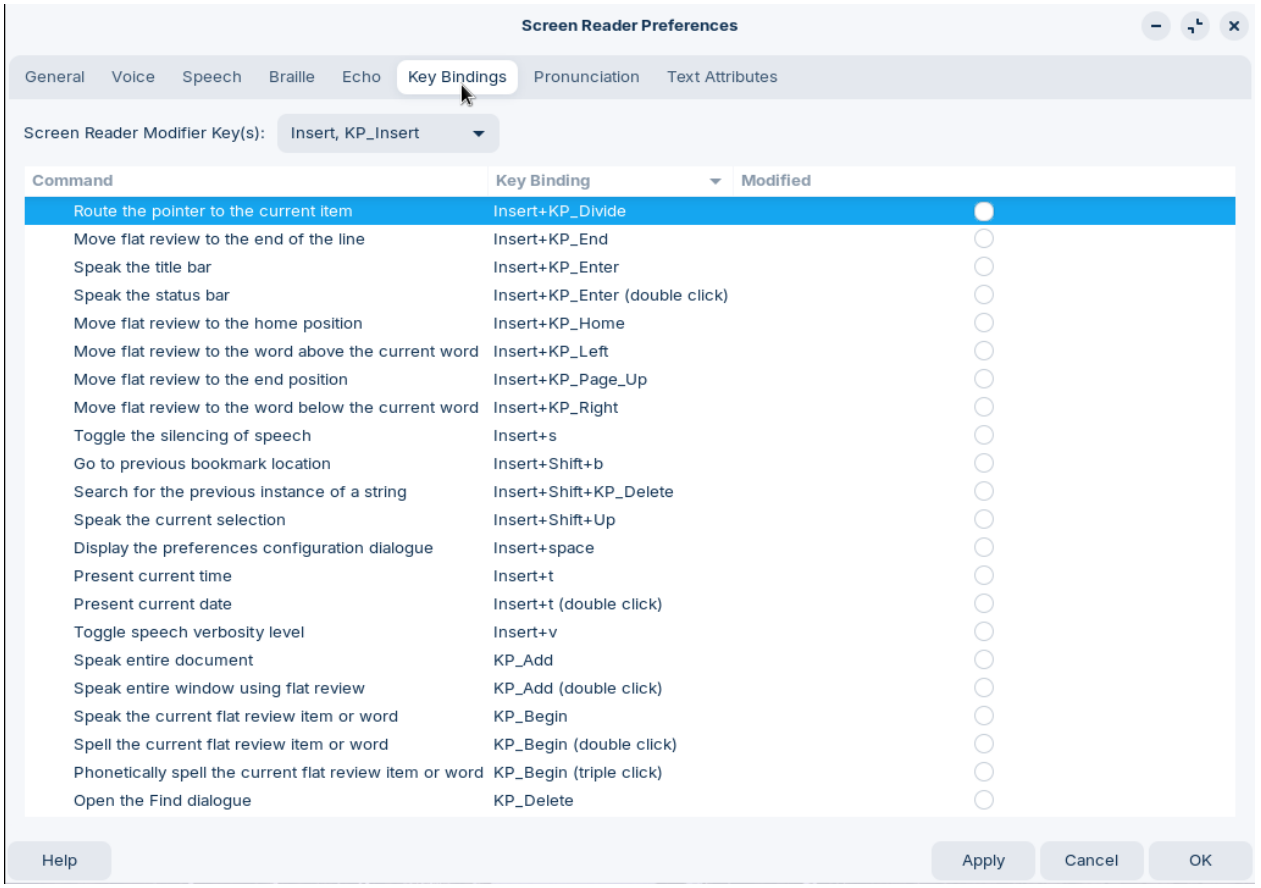

Screen Reader Preferences
General
Voice
Speech
Braille
Echo
Key Bindings
Pronunciation
Text Attributes
Enable key echo
Enable alphabetic keys
Enable numeric keys
Enable punctuation keys
Enable space
Enable modifier keys
Enable function keys
Enable action keys
Enable navigation keys
Enable non-spacing diacritical keys
Enable echo by character
Enable echo by word
Enable echo by sentence
Help
Apply
Cancel
OK

Ink/Toner Levels:

This will be blank until you have printed a **Test Page**.

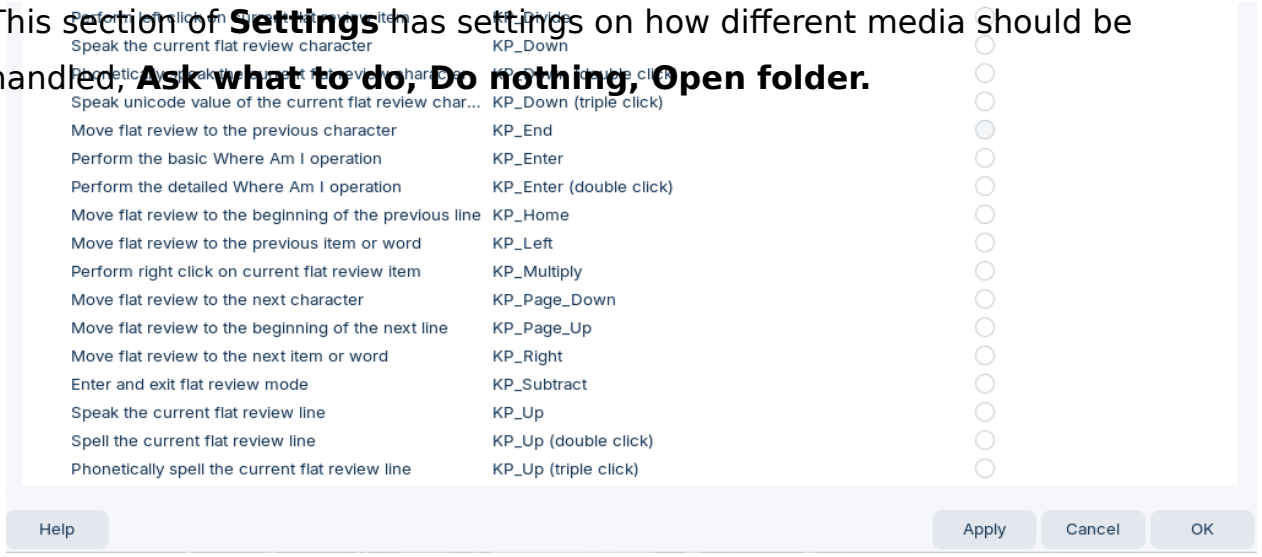
In my case the Icon of the Printer has now changed to include an orange triangle with a white exclamation mark - this indicates that one of the ink cartridges is getting low/empty. So when we now check the **Ink/Toner Levels** section we get an accurate reflection of what the Printer LCD screen reports:

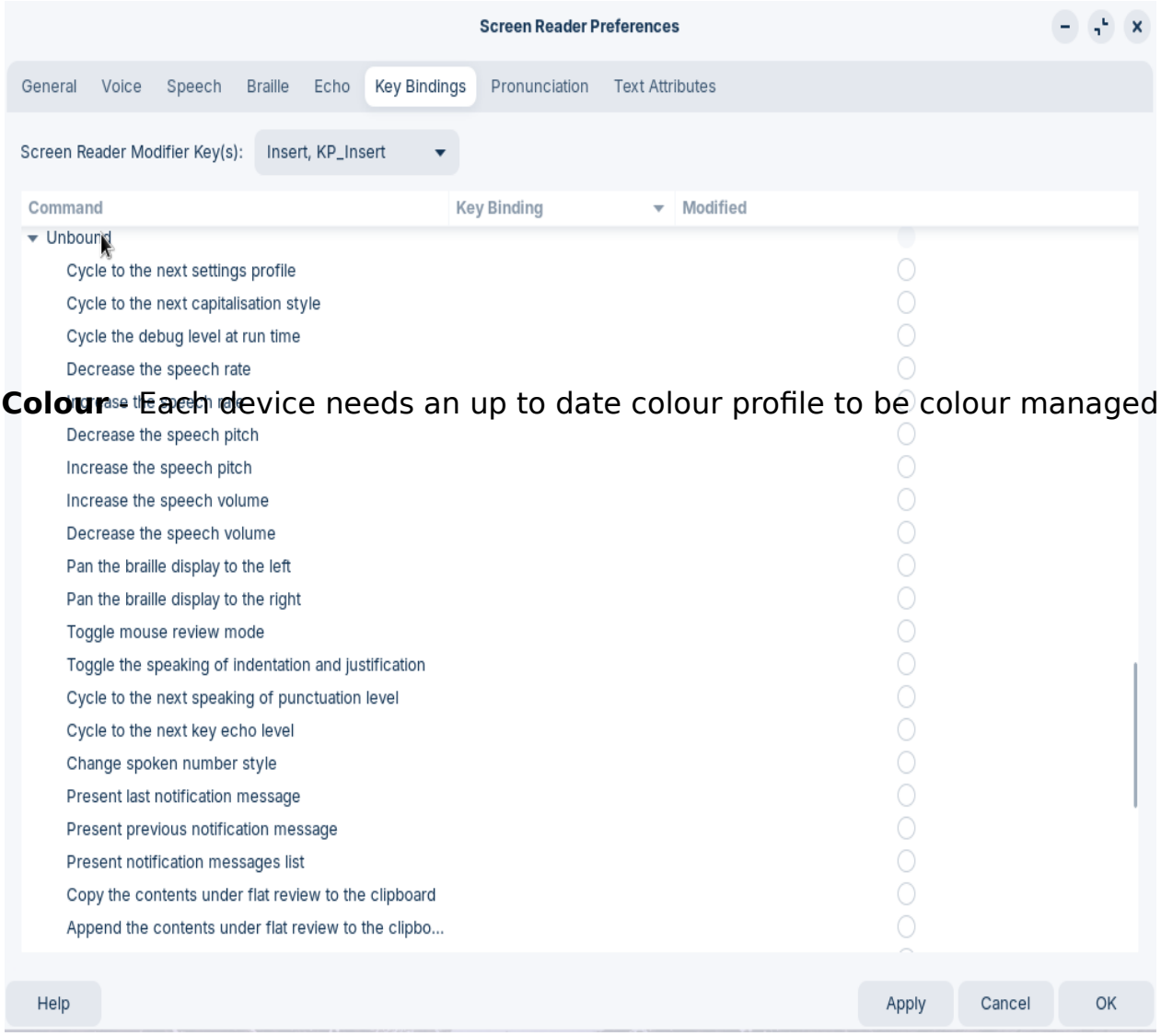




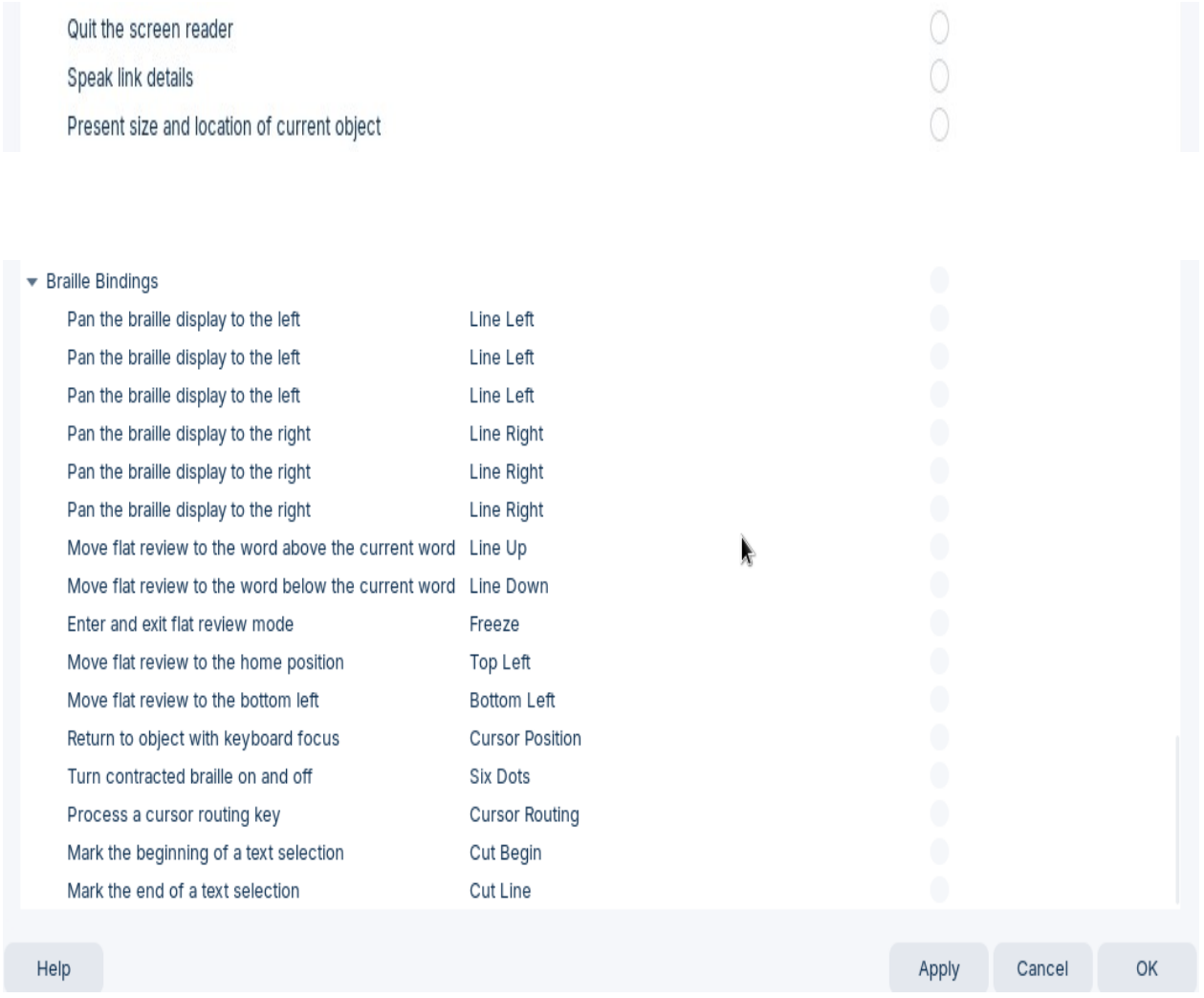
Removable Media:

This section of **Settings** has settings on how different media should be handled, **Ask what to do, Do nothing, Open folder.**

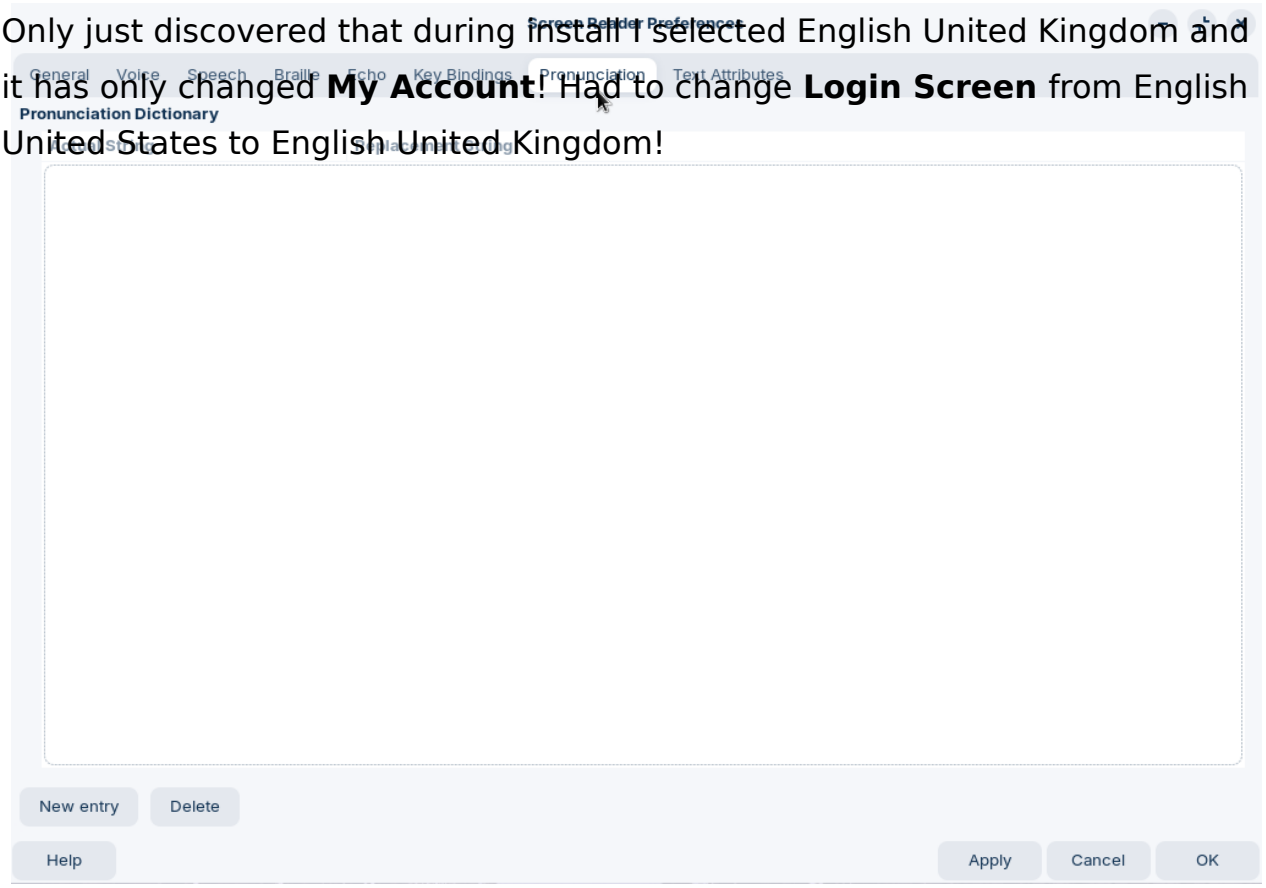

Speak the current flat review character KP_Down
Speak unicode value of the current flat review char... KP_Down (triple click)
Move flat review to the previous character KP_End
Perform the basic Where Am I operation KP_Enter
Perform the detailed Where Am I operation KP_Enter (double click)
Move flat review to the beginning of the previous line KP_Home
Move flat review to the previous item or word KP_Left
Perform right click on current flat review item KP_Multiply
Move flat review to the next character KP_Page_Down
Move flat review to the beginning of the next line KP_Page_Up
Move flat review to the next item or word KP_Right
Enter and exit flat review mode KP_Subtract
Speak the current flat review line KP_Up
Spell the current flat review line KP_Up (double click)
Phonetically spell the current flat review line KP_Up (triple click)
Help
Apply
Cancel
OK

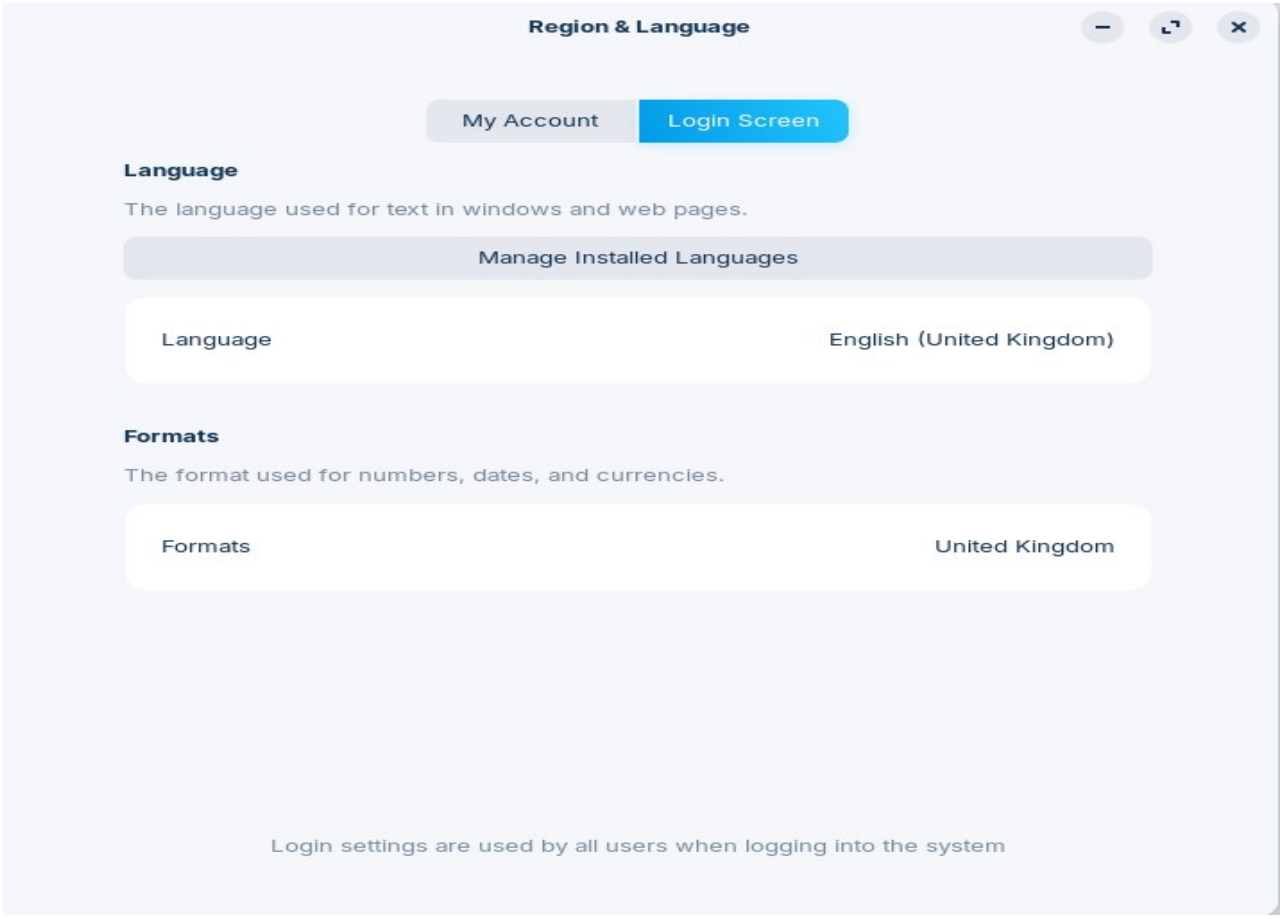


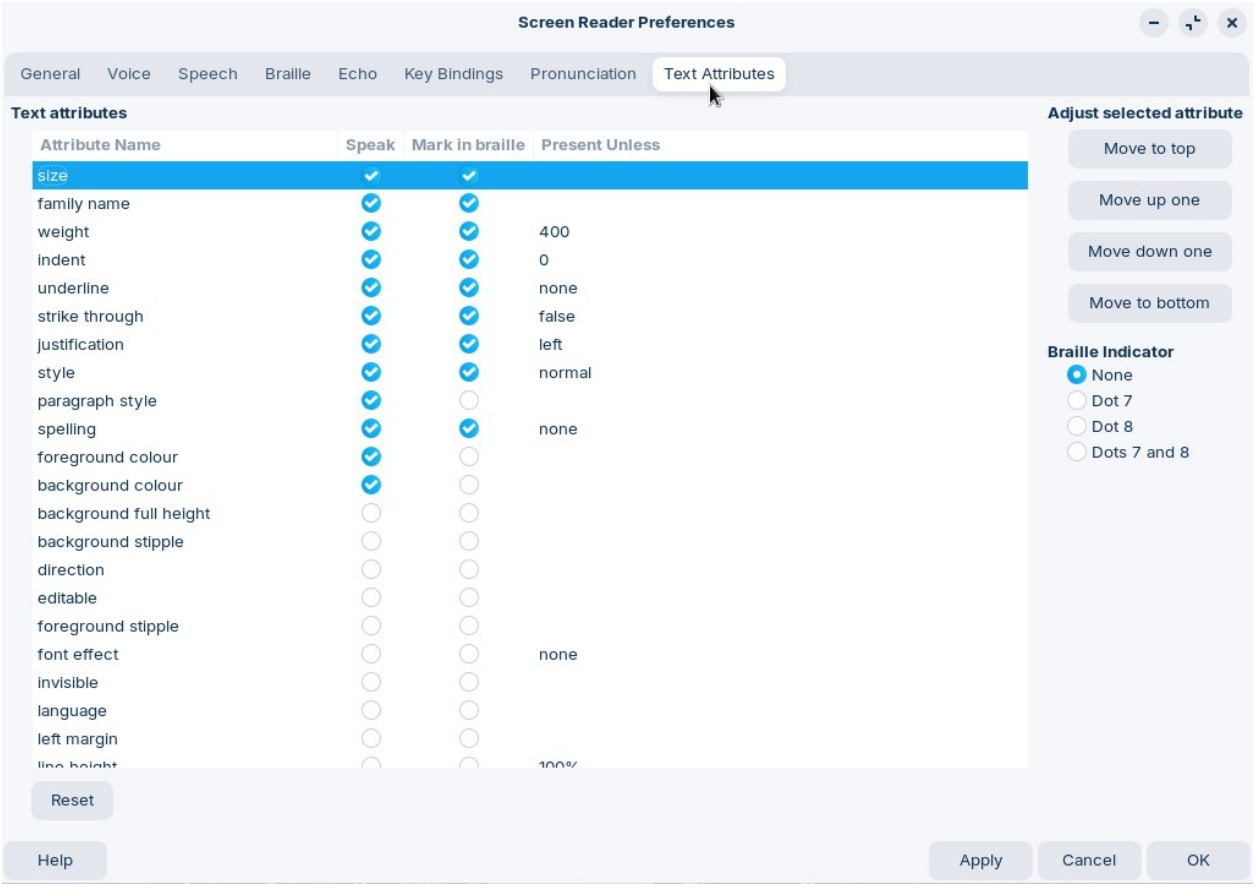
Colour - Each device needs an up to date colour profile to be colour managed.


Quit the screen reader
Speak link details
Present size and location of current object
Braille Bindings
Pan the braille display to the left Line Left
Pan the braille display to the left Line Left
Pan the braille display to the left Line Left
Pan the braille display to the right Line Right
Pan the braille display to the right Line Right
Pan the braille display to the right Line Right
Move flat review to the word above the current word Line Up
Move flat review to the word below the current word Line Down
Enter and exit flat review mode Freeze
Move flat review to the home position Top Left
Move flat review to the bottom left Bottom Left
Return to object with keyboard focus Cursor Position
Turn contracted braille on and off Six Dots
Process a cursor routing key Cursor Routing
Mark the beginning of a text selection Cut Begin
Mark the end of a text selection Cut Line
Help
Apply
Cancel
OK

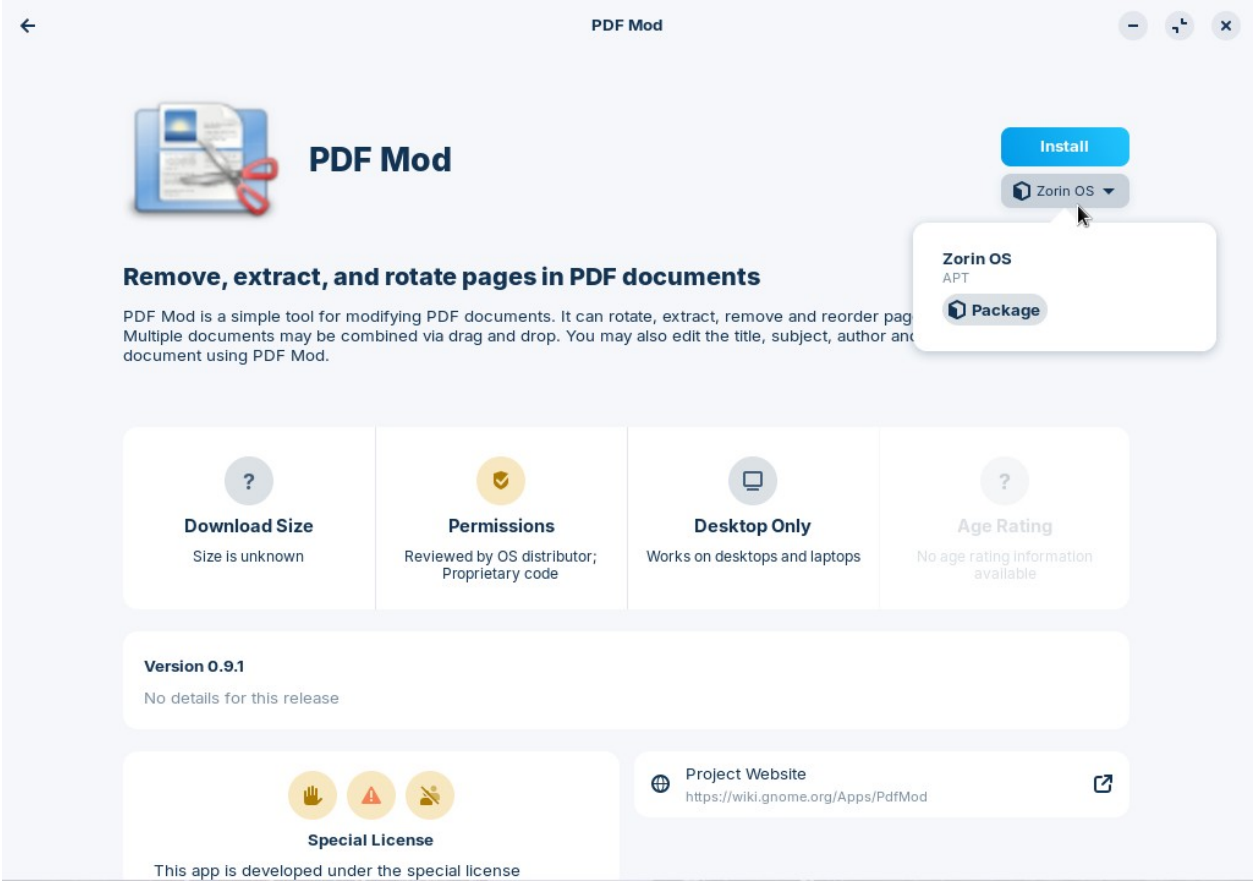
Region & Language - There are two items, **My Account** and **Login Screen**, Only just discovered that during install I selected English United Kingdom and it has only changed **My Account**! Had to change **Login Screen** from English United States to English United Kingdom!






Screen Reader Preferences
General
Voice
Speech
Braille
Echo
Key Bindings
Pronunciation
Text Attributes
Text attributes
Attribute Name
Speak
Mark in braille
Present Unless
size
family name
weight
400
indent
0
underline
none
strike through
false
justification
left
style
normal
paragraph style
spelling
none
foreground colour
background colour
background full height
background stipple
direction
editable
foreground stipple
font effect
none
invisible
language
left margin
Adjust selected attribute
Move to top
Move up one
Move down one
Move to bottom
Braille Indicator
None
Dot 7
Dot 8
Dots 7 and 8
Reset
Help
Apply
Cancel
OK

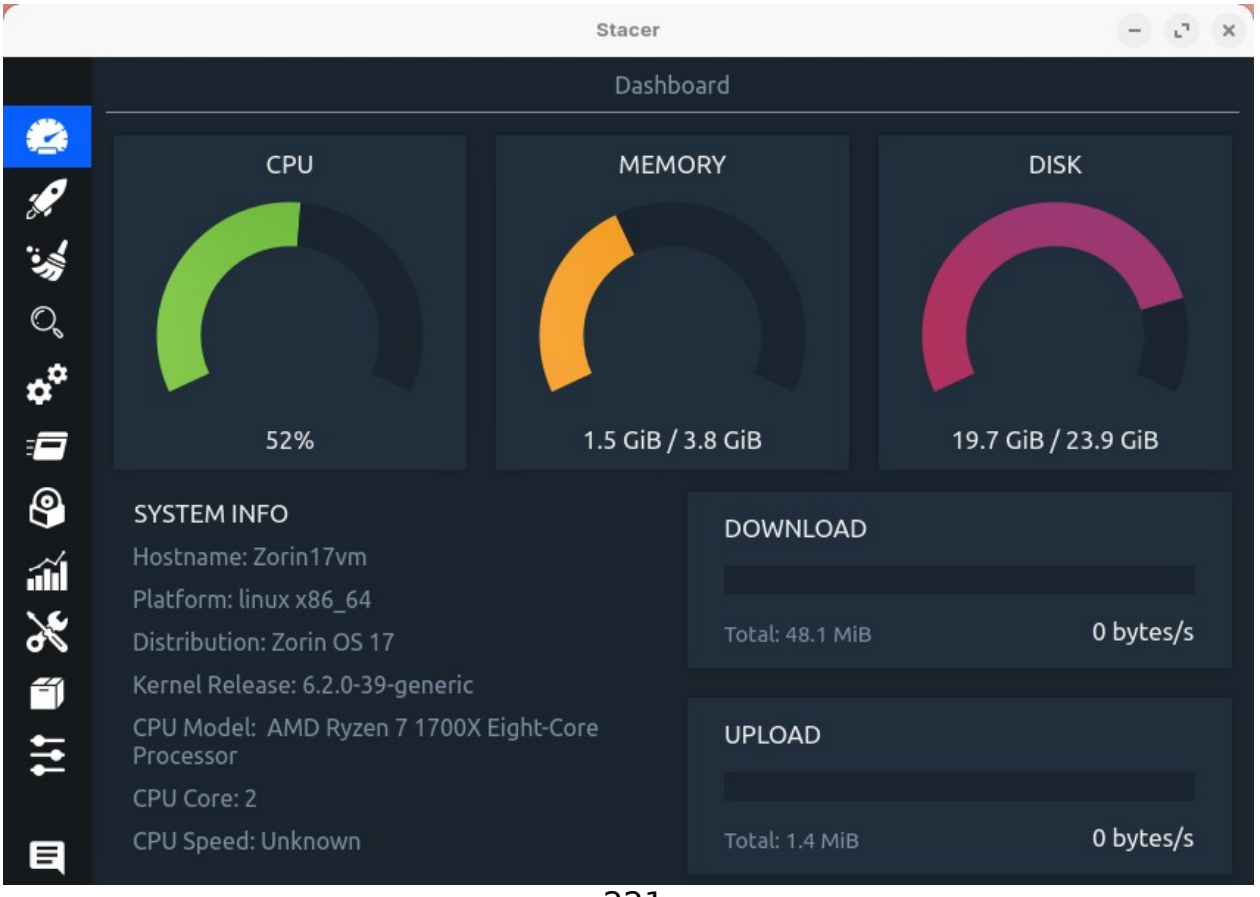
Accessibility (top half)


PDF Mod
PDF Mod
Install
Zorin OS
Zorin OS
APT
Package
Remove, extract, and rotate pages in PDF documents
PDF Mod is a simple tool for modifying PDF documents. It can rotate, extract, remove and reorder pag
Multiple documents may be combined via drag and drop. You may also edit the title, subject, author an
document using PDF Mod.
Download Size
Size is unknown
Permissions
Reviewed by OS distributor; Proprietary code
Desktop Only
Works on desktops and laptops
Age Rating
No age rating information available
Version 0.9.1
No details for this release
Special License
This app is developed under the special license
Project Website
https://wiki.gnome.org/Apps/PdfMod

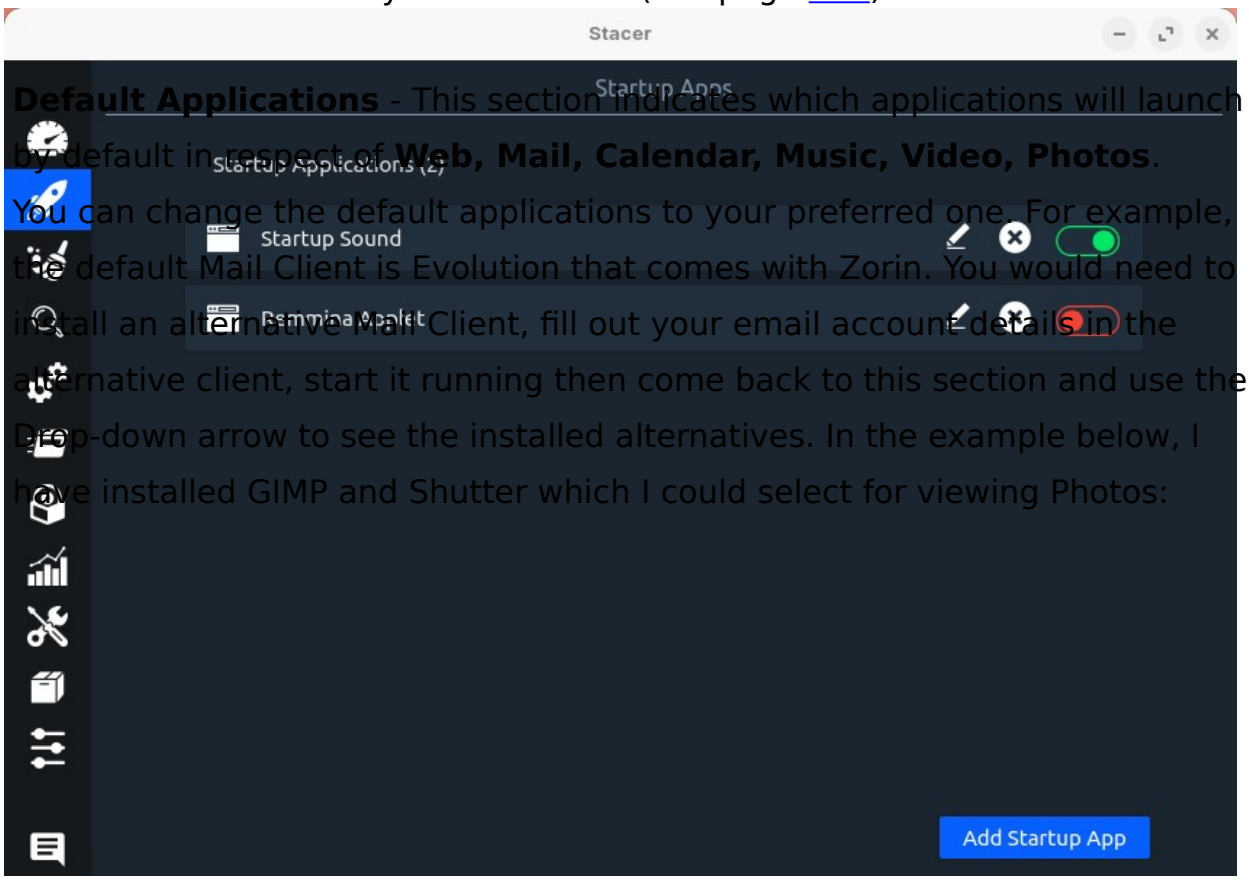
Note that I have **Enable Animations** enabled - this should only be use in relation to **Pointer Location** for low-vision users, no other animations should be enabled.

If **Always Show Accessibility Menu** is turned on, this will appear in the System Tray area of the **Dash**.

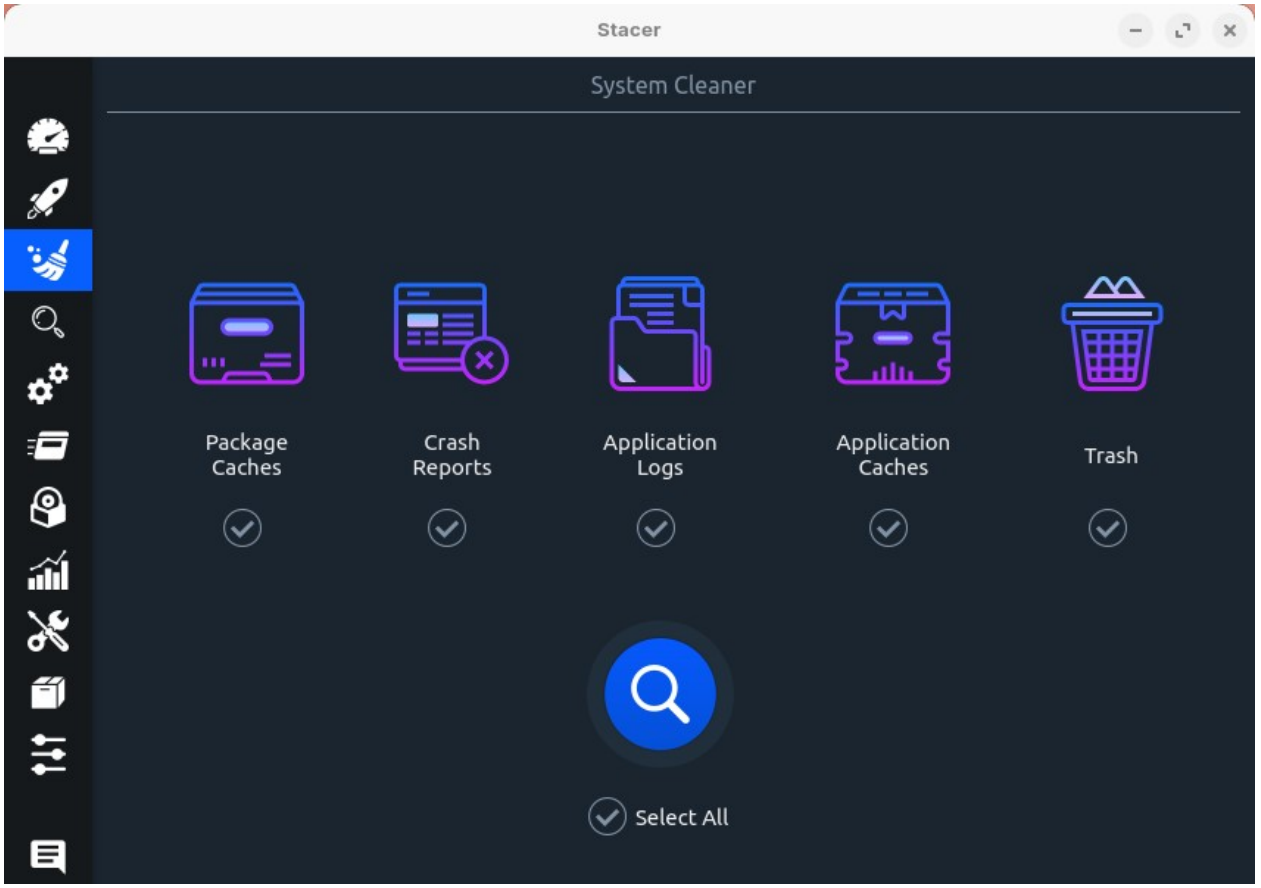
Accessibility (bottom half)



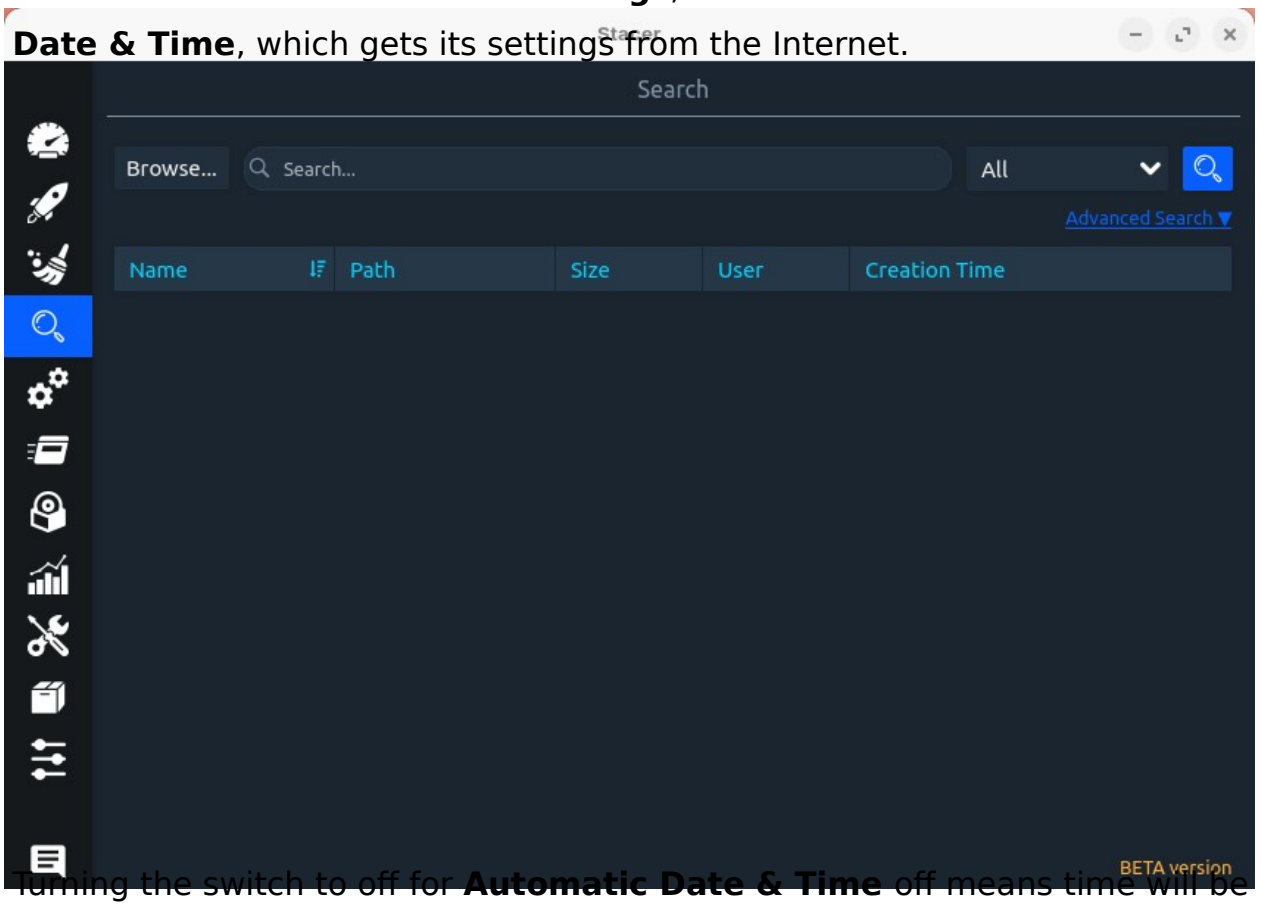
Users - this has already been covered (see page 132)



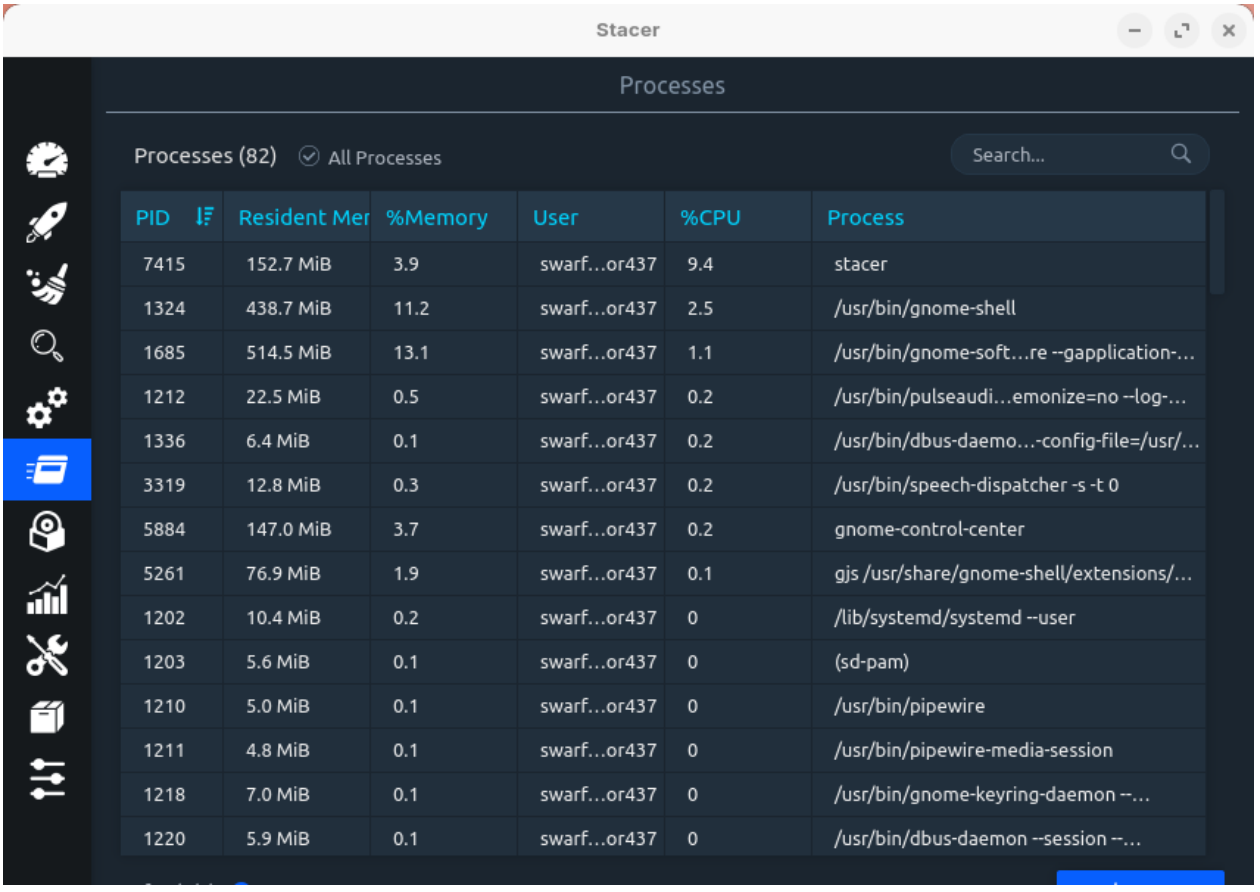
Default Applications - This section indicates which applications will launch by default in respect of **Web, Mail, Calendar, Music, Video, Photos**. You can change the default applications to your preferred one. For example, the default Mail Client is Evolution that comes with Zorin. You would need to install an alternative Mail Client, fill out your email account details in the alternative client, start it running then come back to this section and use the Drop-down arrow to see the installed alternatives. In the example below, I have installed GIMP and Shutter which I could select for viewing Photos:

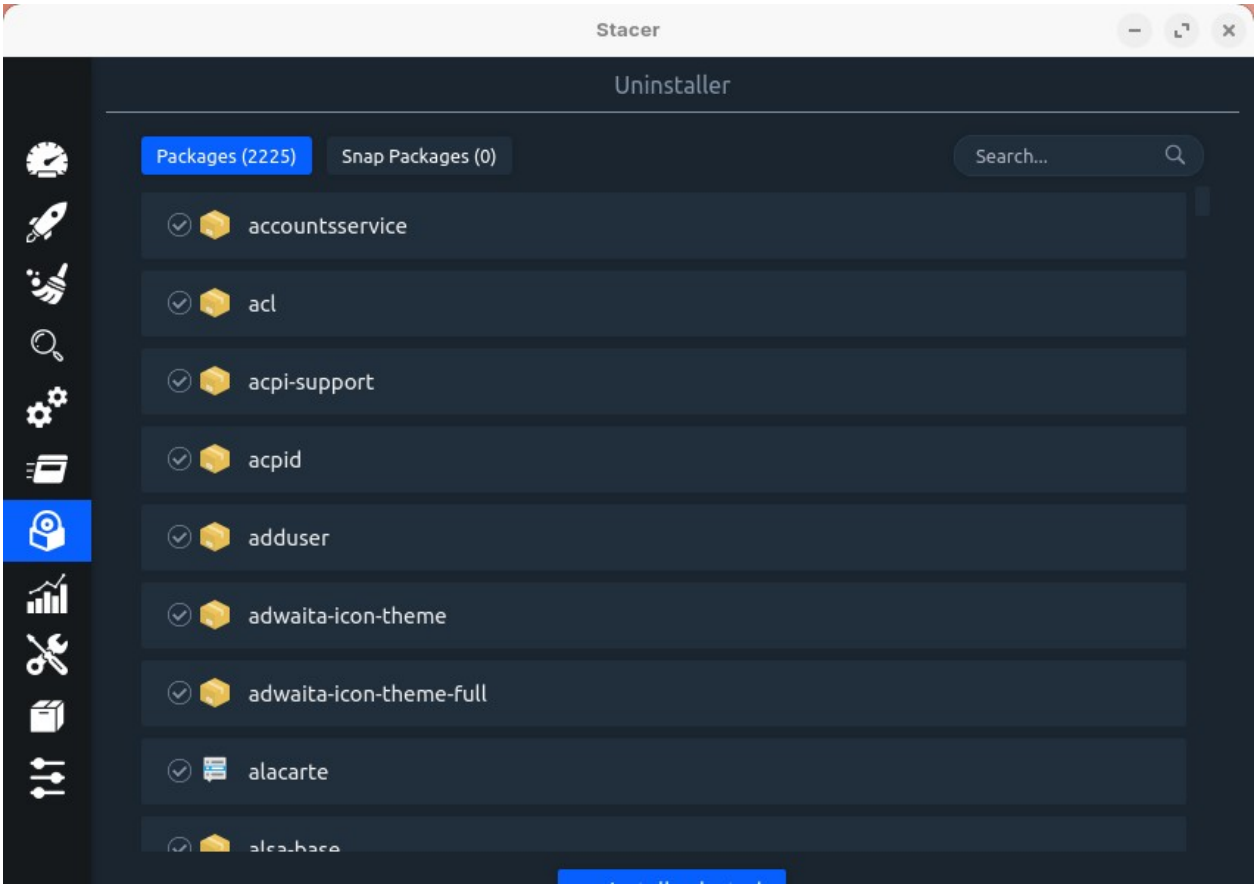


Date & Time - in this section of **Settings**, **Date & Time** is set to **Automatic Date & Time**, which gets its settings from the Internet.

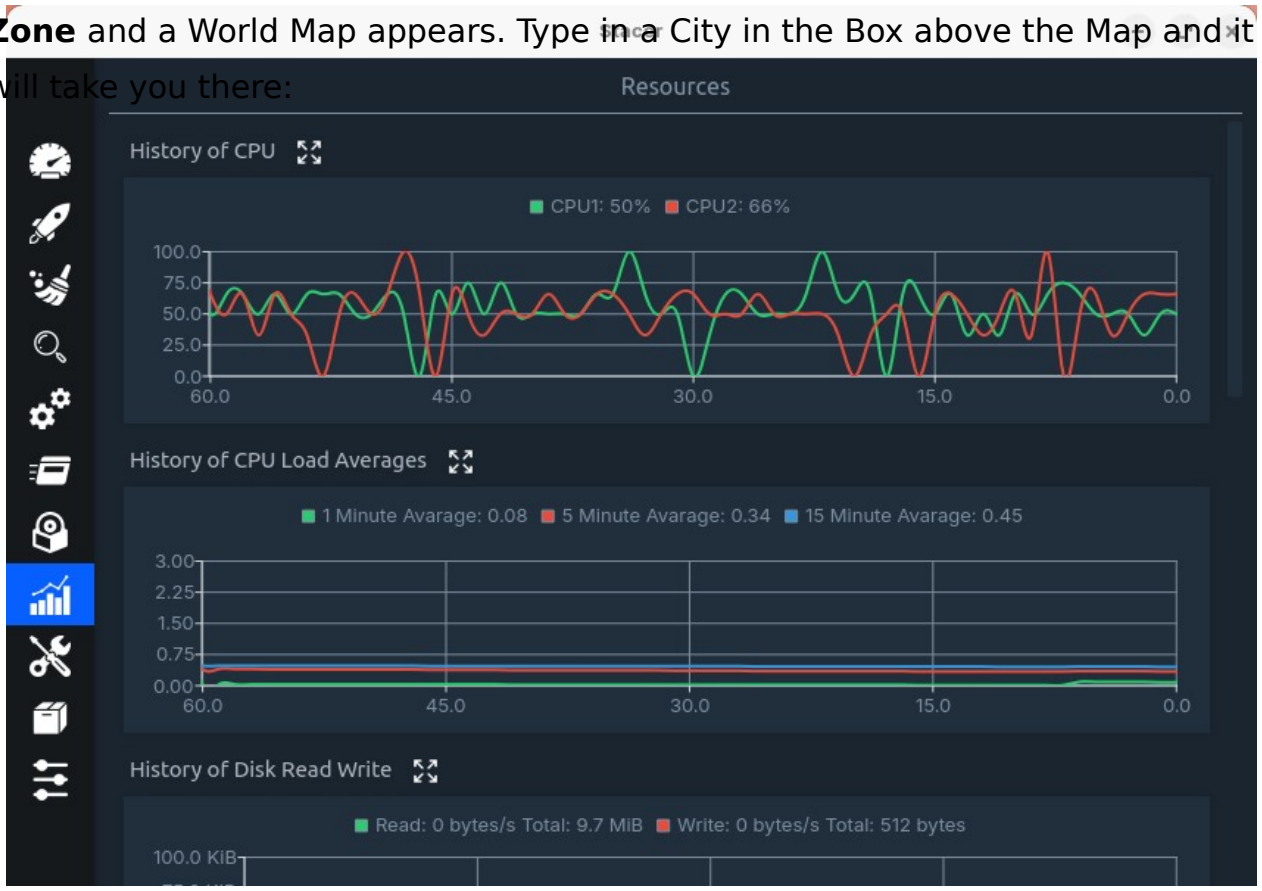


Turning the switch to off for **Automatic Date & Time** off means time will be coming from the BIOS which will be reliant on the CMOS battery on the motherboard being operational. To manually change the **Date & Time**, click on **Date & Time** below **Automatic Date & Time** and the following interface appears:


Stacer
Processes
Processes (82)
All Processes
Search...
PID
Resident Mer
%Memory
User
%CPU
Process
7415 152.7 MiB 3.9 swarf...or437 9.4 stacer
1324 438.7 MiB 11.2 swarf...or437 2.5 /usr/bin/gnome-shell
1685 514.5 MiB 13.1 swarf...or437 1.1 /usr/bin/gnome-soft...re --gapplication-...
1212 22.5 MiB 0.5 swarf...or437 0.2 /usr/bin/pulseaudi...emonize=no --log-...
1336 6.4 MiB 0.1 swarf...or437 0.2 /usr/bin/dbus-daemo...-config-file=/usr/...
3319 12.8 MiB 0.3 swarf...or437 0.2 /usr/bin/speech-dispatcher -s -t 0
5884 147.0 MiB 3.7 swarf...or437 0.2 gnome-control-center
5261 76.9 MiB 1.9 swarf...or437 0.1 gjs /usr/share/gnome-shell/extensions/...
1202 10.4 MiB 0.2 swarf...or437 0 /lib/systemd/systemd --user
1203 5.6 MiB 0.1 swarf...or437 0 (sd-pam)
1210 5.0 MiB 0.1 swarf...or437 0 /usr/bin/pipewire
1211 4.8 MiB 0.1 swarf...or437 0 /usr/bin/pipewire-media-session
1218 7.0 MiB 0.1 swarf...or437 0 /usr/bin/gnome-keyring-daemon --...
1220 5.9 MiB 0.1 swarf...or437 0 /usr/bin/dbus-daemon --session --...


Stacer
Uninstaller
Packages (2225)
Snap Packages (0)
Search...
accountsservice
acl
acpi-support
acpid
adduser
adwaita-icon-theme
adwaita-icon-theme-full
alacarte

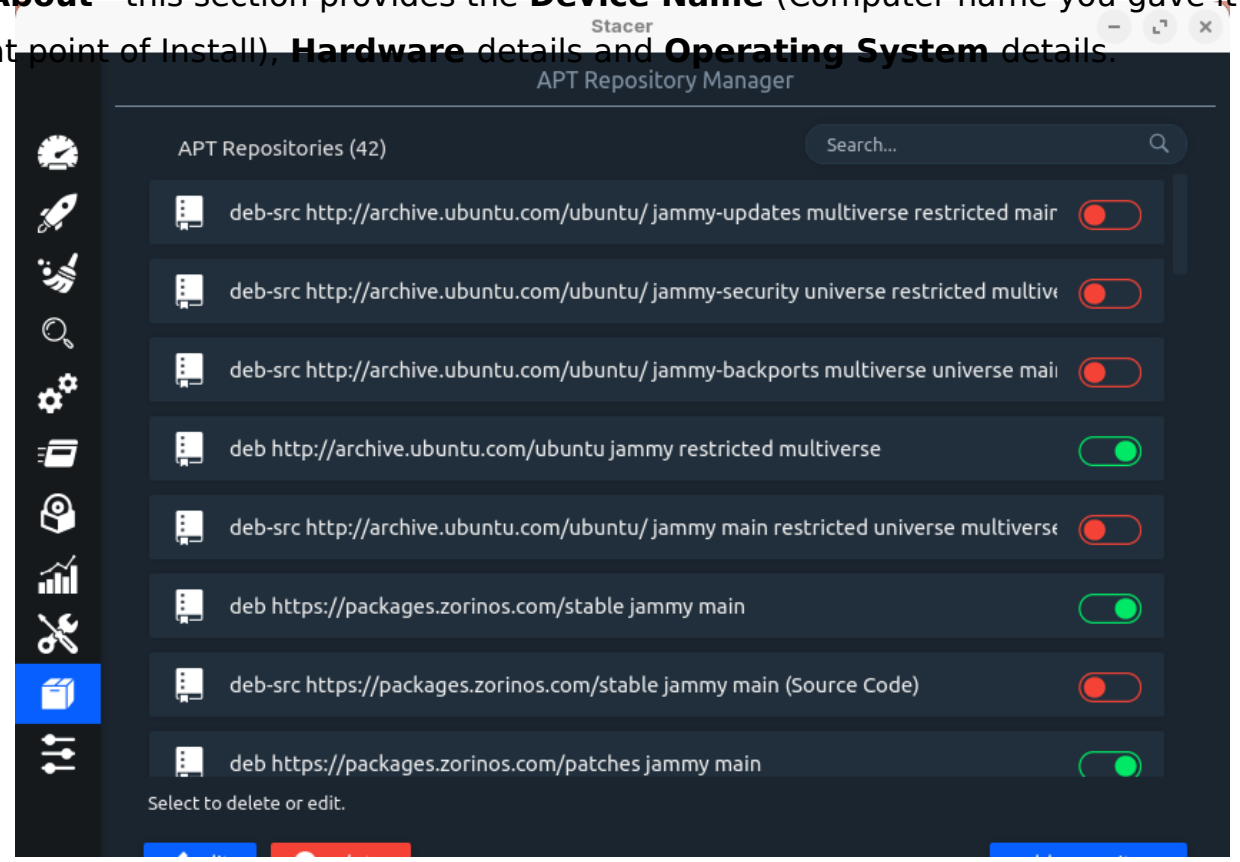
Should you wish to change the **Time Zone** to a different one, click on **Time Zone** and a World Map appears. Type in a City in the Box above the Map and it will take you there:



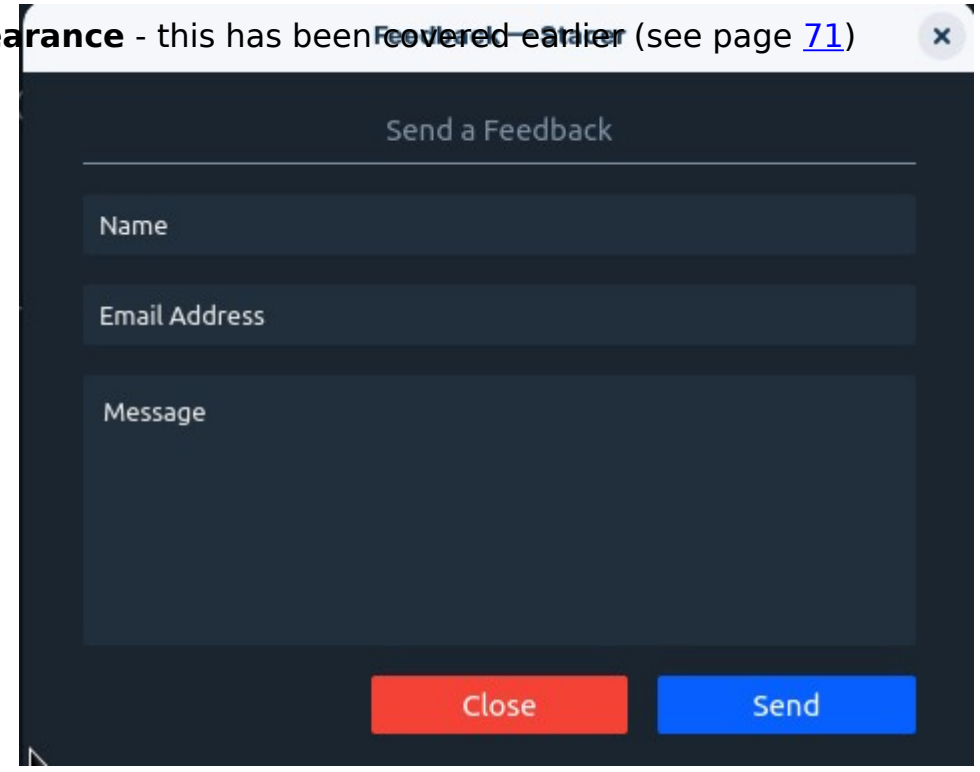
In the example above I have moved from GMT (Greenwich Mean Time) to New York, United States EST (UTC-05)

Time Format - set to 24-hour - use the drop-down arrow to change to AM/PM.

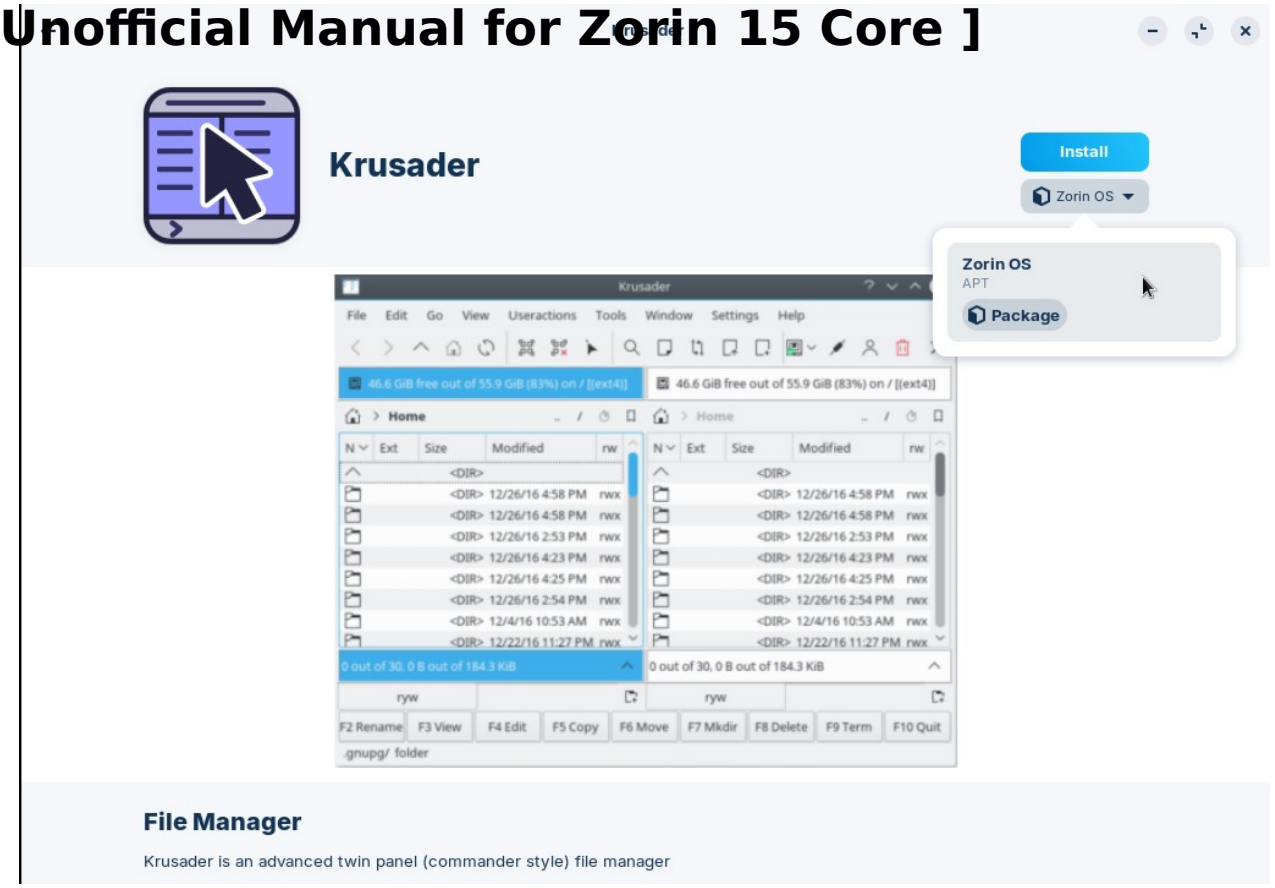
About - this section provides the **Device Name** (Computer name you gave it at point of Install), **Hardware** details and **Operating System** details.


Stacer
APT Repository Manager
APT Repositories (42)
Search...
deb-src http://archive.ubuntu.com/ubuntu/ jammy-updates multiverse restricted mair
deb-src http://archive.ubuntu.com/ubuntu/ jammy-security universe restricted multiv
deb-src http://archive.ubuntu.com/ubuntu/ jammy-backports multiverse universe mai
deb http://archive.ubuntu.com/ubuntu jammy restricted multiverse
deb-src http://archive.ubuntu.com/ubuntu/ jammy main restricted universe multiverse
deb https://packages.zorinos.com/stable jammy main
deb-src https://packages.zorinos.com/stable jammy main (Source Code)
deb https://packages.zorinos.com/patches jammy main
Select to delete or edit.

Zorin Appearance - this has been covered earlier (see page 71)

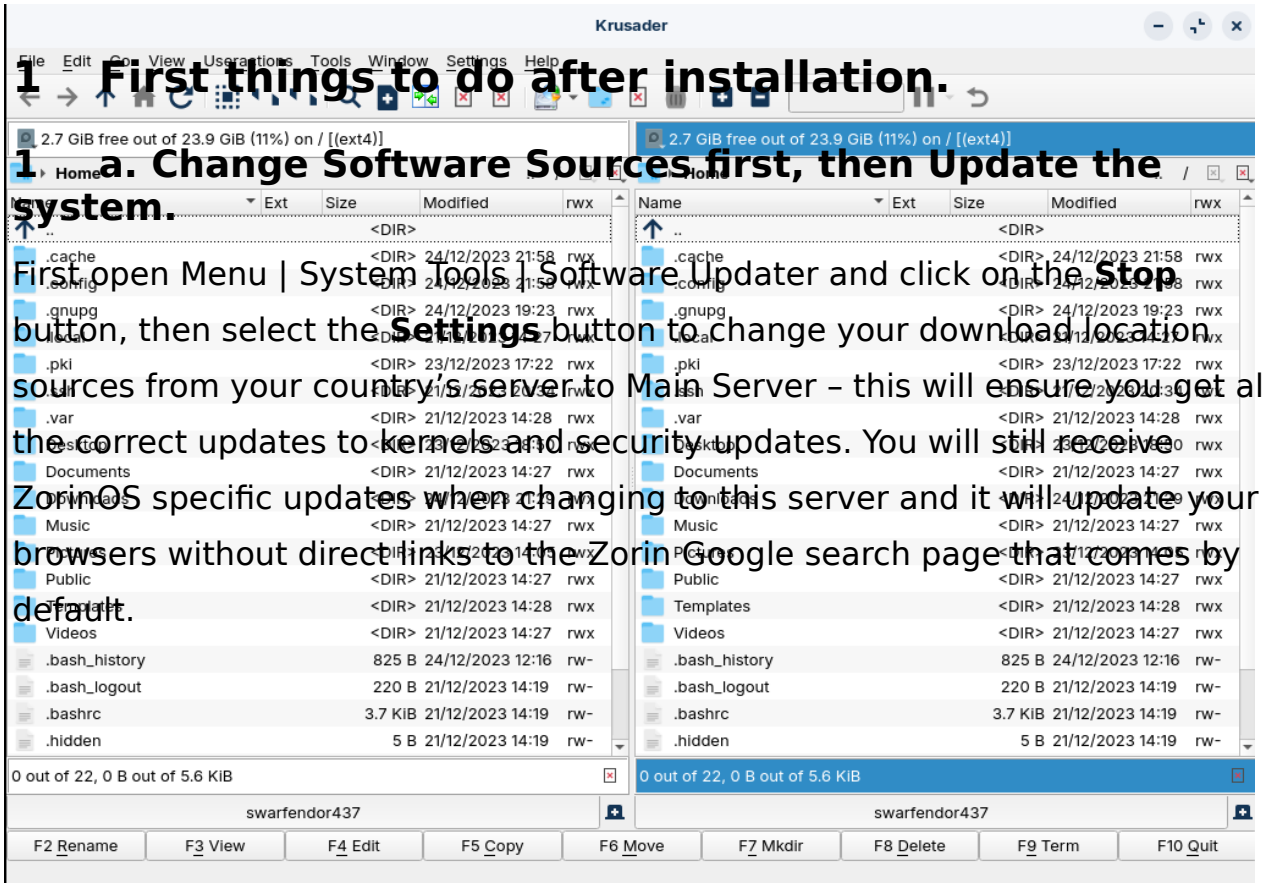


26 [This section contains elements from the Unofficial Manual for Zorin 15 Core]


Krusader
Install
Zorin OS
Zorin OS
APT
Package
Krusader
File Edit Go View Useractions Tools Window Settings Help
46.6 GiB free out of 55.9 GiB (83%) on / [(ext4)]
Home
N Ext Size Modified rw
F2 Rename F3 View F4 Edit F5 Copy F6 Move F7 Mkdir F8 Delete F9 Term F10 Quit
.gnupg/ folder
File Manager
Krusader is an advanced twin panel (commander style) file manager

1 First things to do after installation.

1 a. Change Software Sources first, then Update the system.

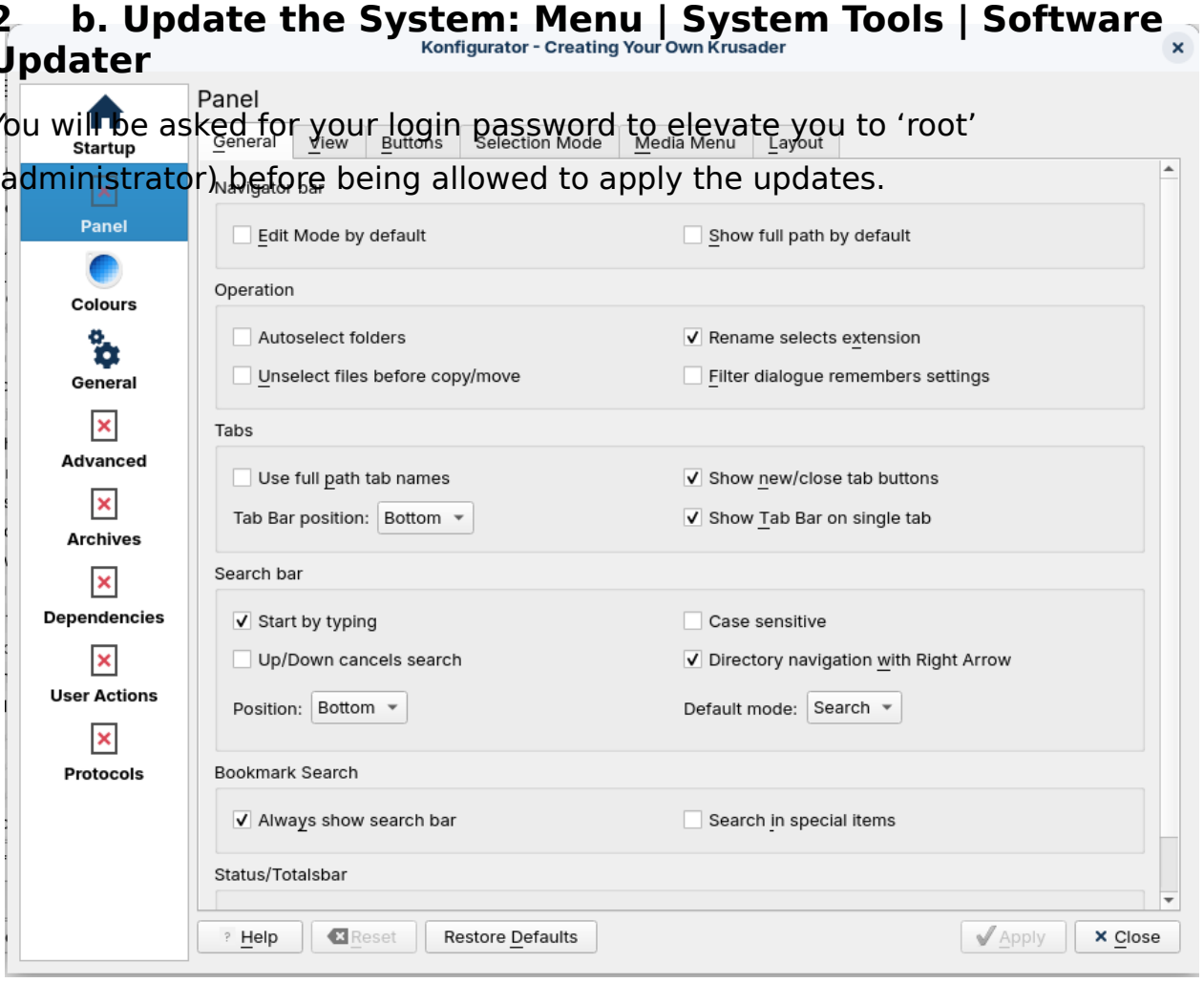

Krusader
File Edit Go View Usercations Tools Window Settings Help
2.7 GiB free out of 23.9 GiB (11%) on / [(ext4)]
Home
Name Ext Size Modified rwx
.cache <DIR> 24/12/2023 21:58 rwx
.gnupg <DIR> 24/12/2023 19:23 rwx
.pki <DIR> 23/12/2023 17:22 rwx
.var <DIR> 21/12/2023 14:28 rwx
Documents <DIR> 21/12/2023 14:27 rwx
Music <DIR> 21/12/2023 14:27 rwx
Public <DIR> 21/12/2023 14:27 rwx
Templates <DIR> 21/12/2023 14:28 rwx
Videos <DIR> 21/12/2023 14:27 rwx
.bash_history 825 B 24/12/2023 12:16 rw-
.bash_logout 220 B 21/12/2023 14:19 rw-
.bashrc 3.7 KiB 21/12/2023 14:19 rw-
.hidden 5 B 21/12/2023 14:19 rw-
0 out of 22, 0 B out of 5.6 KiB
swarfendor437
F2 Rename F3 View F4 Edit F5 Copy F6 Move F7 Mkdir F8 Delete F9 Term F10 Quit

First open Menu | System Tools | Software Updater and click on the **Stop** button, then select the **Settings** button to change your download location sources from your country's server to Main Server – this will ensure you get all the correct updates to kernels and security updates. You will still receive ZorinOS specific updates when changing to this server and it will update your browsers without direct links to the Zorin Google search page that comes by default.

When you select 'Download from:' you will be asked for your login password of your account to elevate your user status to 'root' (Administrator) in order to do this.

2 b. Update the System: Menu | System Tools | Software Updater

You will be asked for your login password to elevate you to ‘root’ (administrator) before being allowed to apply the updates.

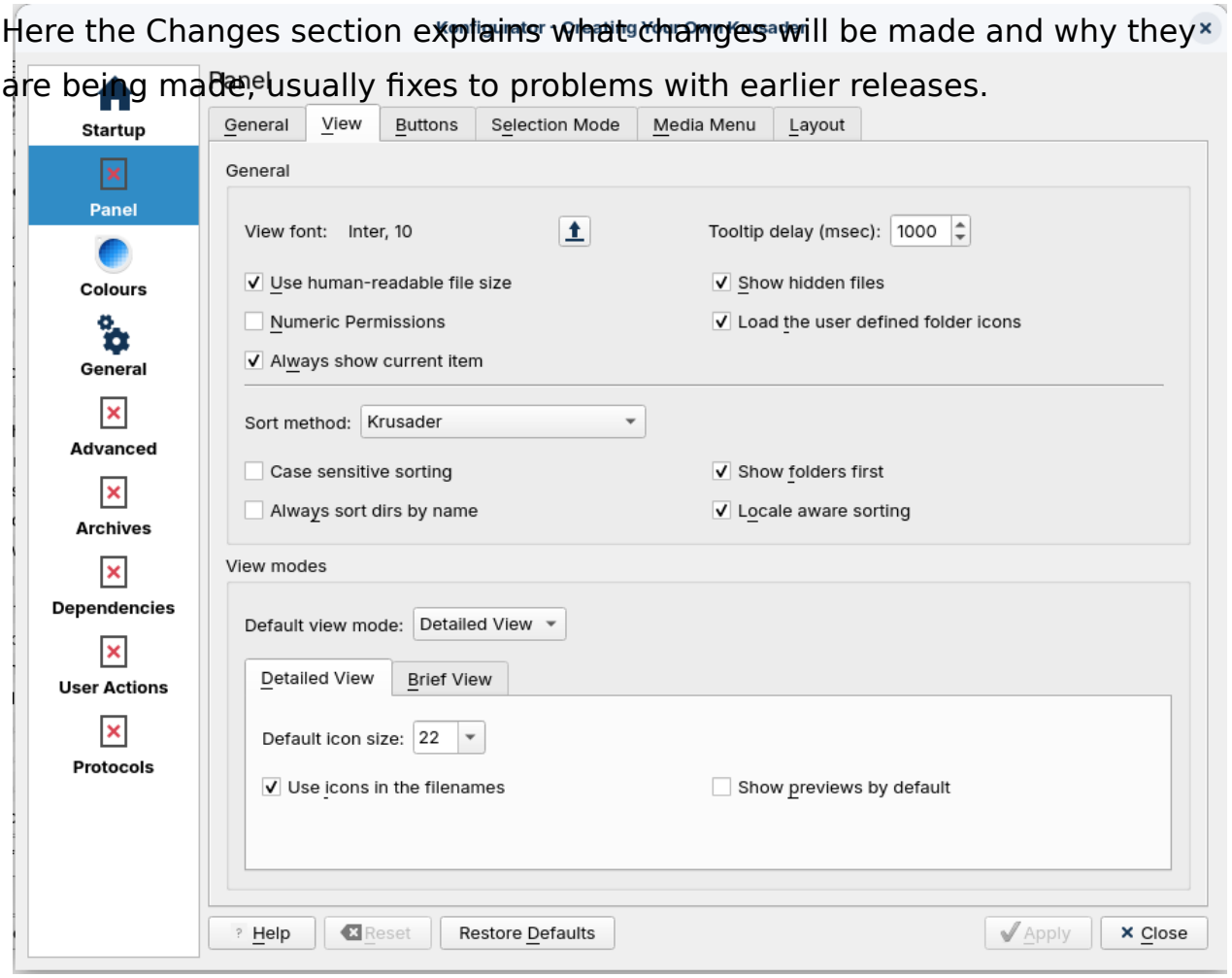


Notice the ‘arrowhead’ / triangle to the left of ‘Zorin OS base’ - left clicking on the ‘arrowhead’ expands the information as seen in the picture on the next page.

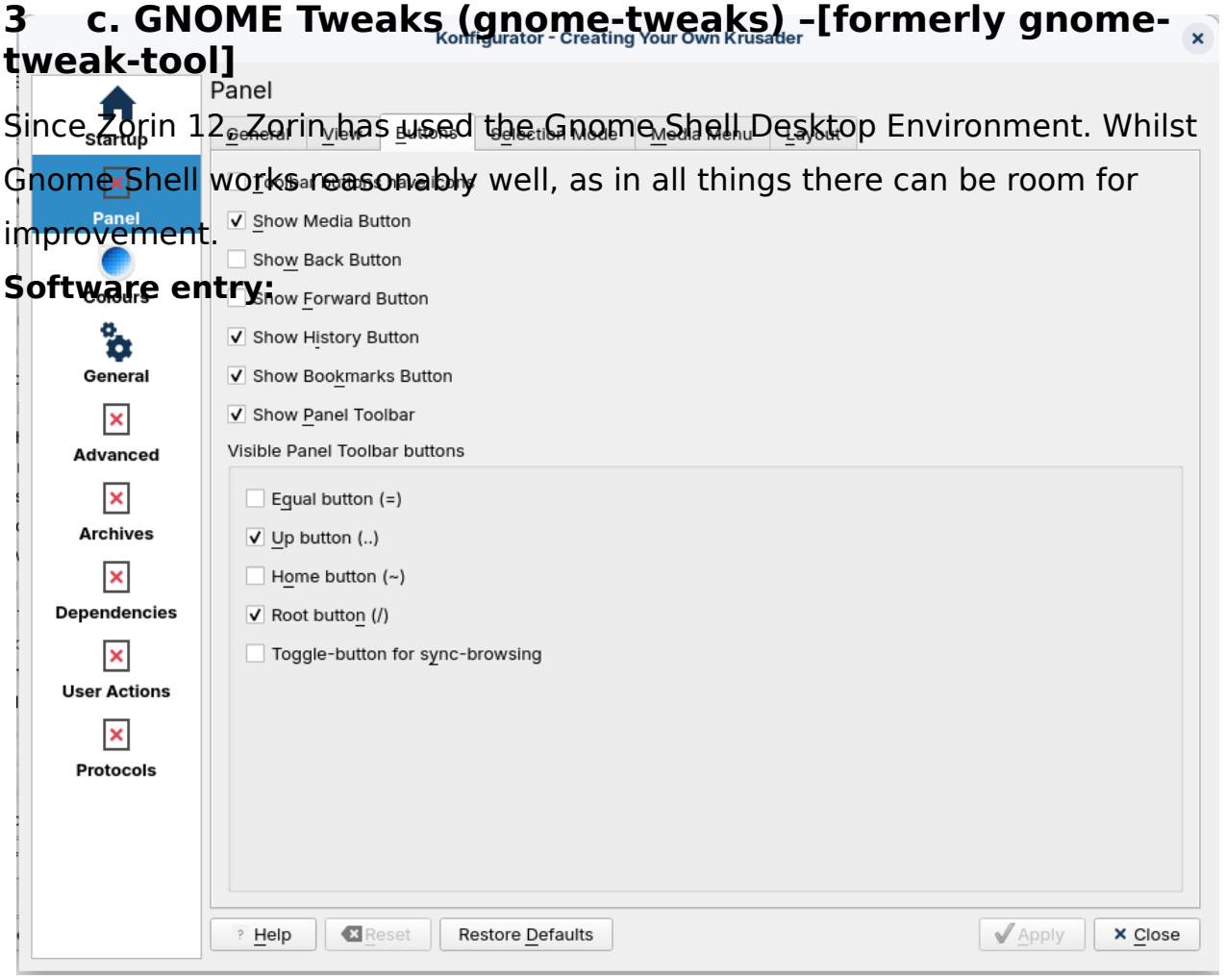
Clicking on the ‘arrowhead’ to the left of ‘Technical description’ opens up a bottom pane with more detailed information as to the changes it makes, also shown in the image on the next page.

The bottom pane has two tabs: ‘Changes’ and ‘Description’.

Here the Changes section explains what changes will be made and why they are being made, usually fixes to problems with earlier releases.



3 c. GNOME Tweaks (gnome-tweaks) –[formerly gnome-tweak-tool]

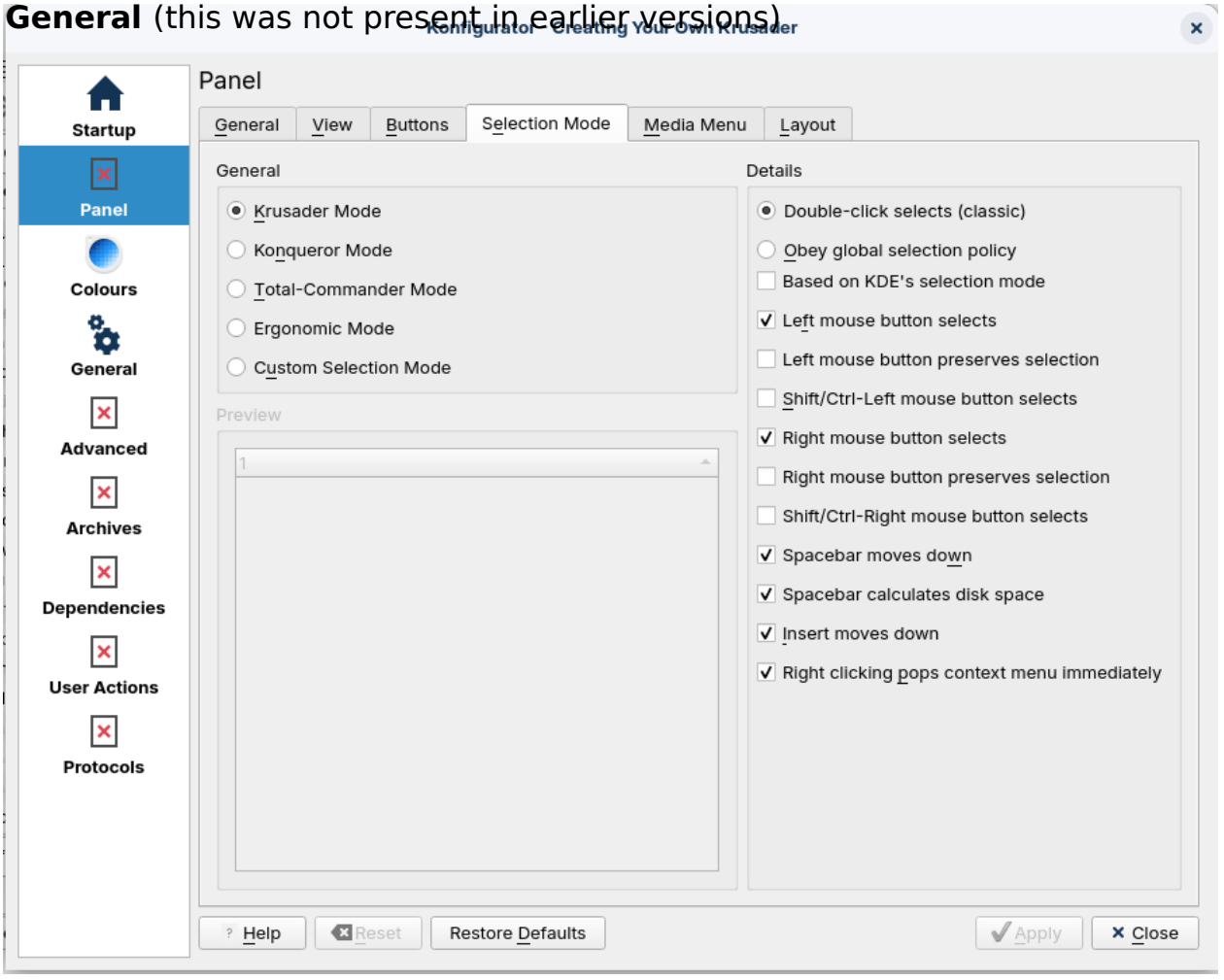


Since Zorin 12, Zorin has used the Gnome Shell Desktop Environment. Whilst Gnome Shell works reasonably well, as in all things there can be room for improvement.

Software entry:

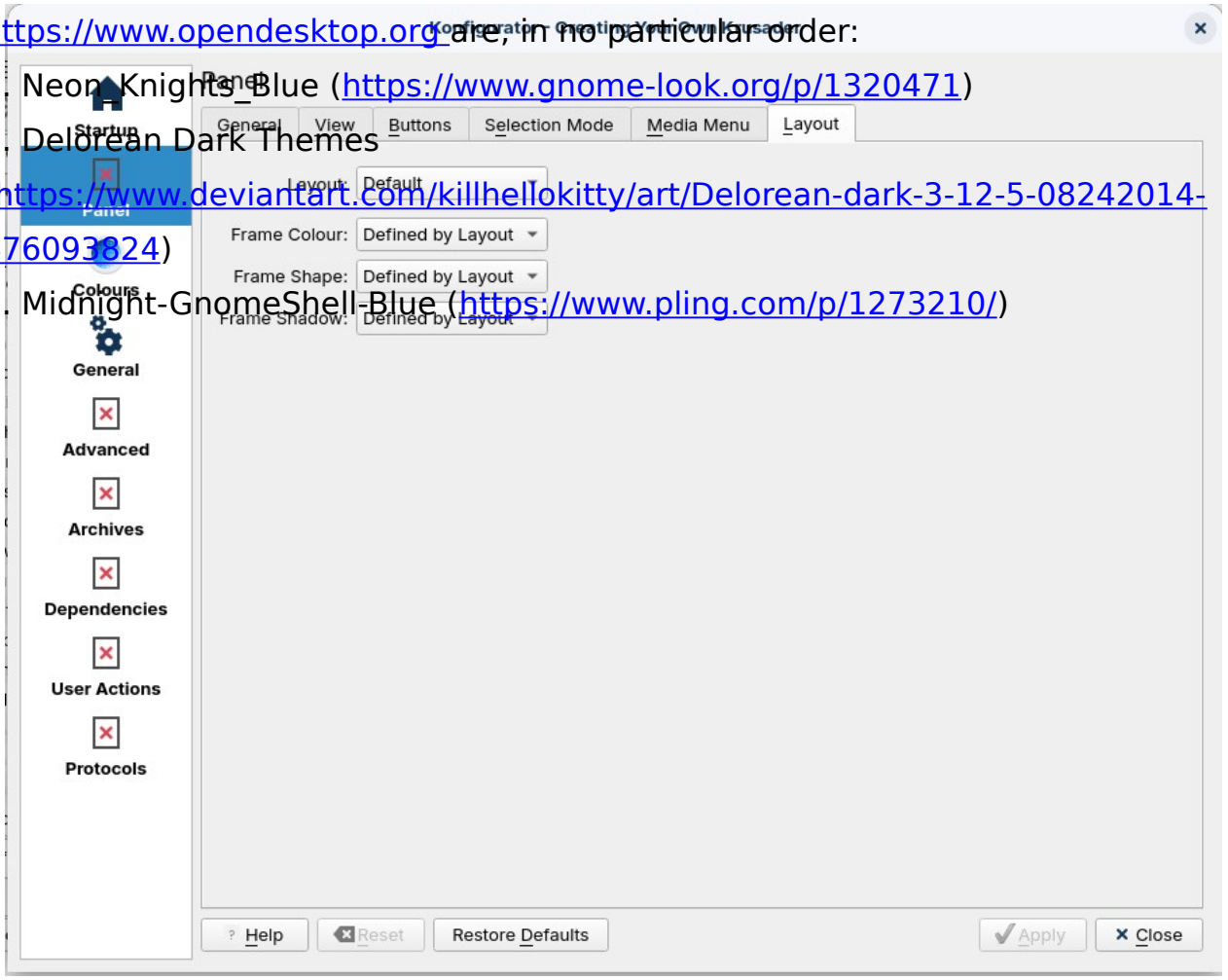
Tweaks interface:

General (this was not present in earlier versions)



Appearance

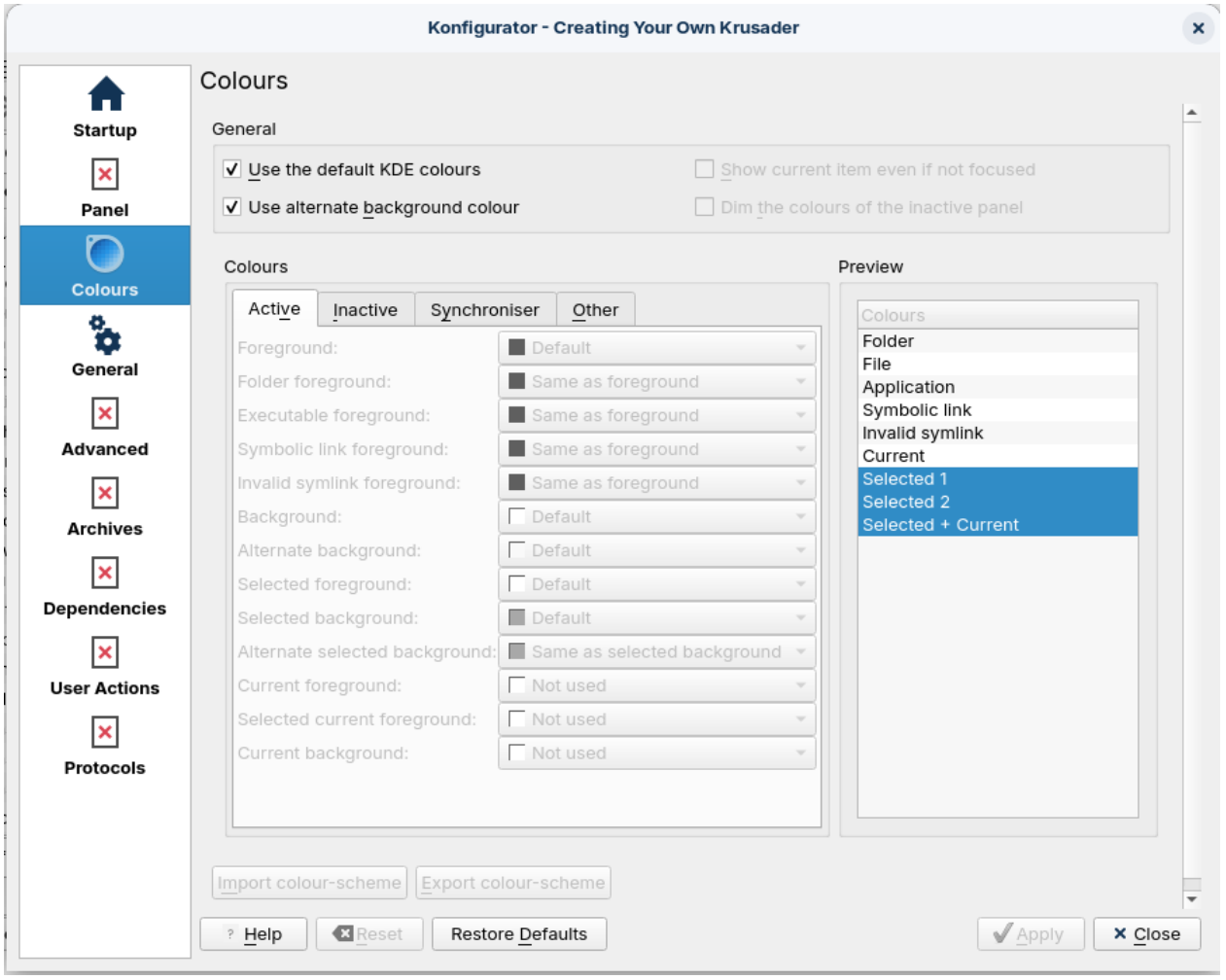
If like me you prefer something Darker, then the following themes from https://www.opendesktop.org are, in no particular order:



1. Neon_Knights_Blue (https://www.gnome-look.org/p/1320471)
2. Delorean Dark Themes (https://www.deviantart.com/killhellokitty/art/Delorean-dark-3-12-5-08242014-476093824)
3. Midnight-GnomeShell-Blue (https://www.pling.com/p/1273210/)

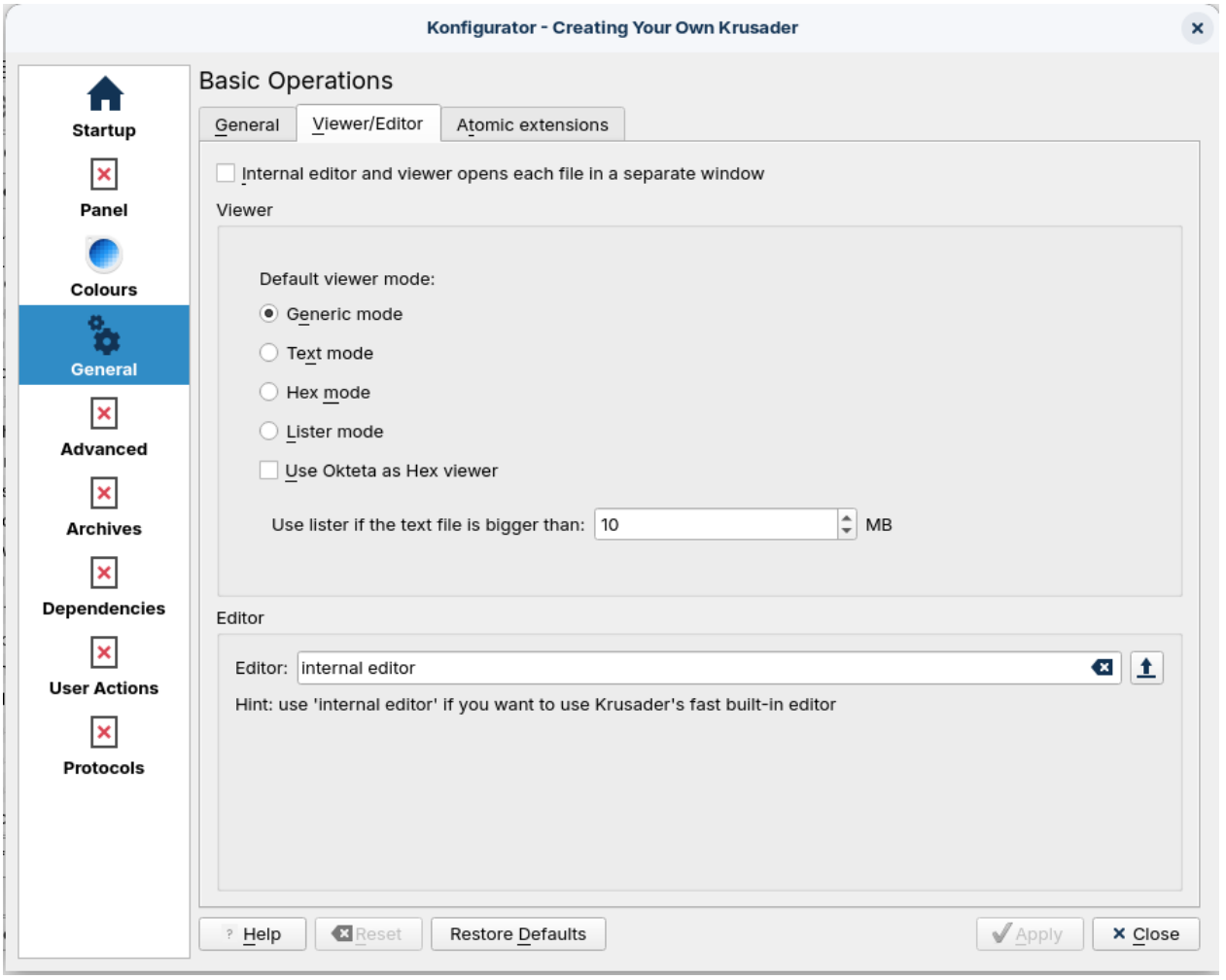
Only Midnight Shell theme worked, Neon Knights did not show up even after manually placing in the correct folder having ‘chown’d the relevant folder. Delorean Dark worked with the style of Windows but in doing so, background images broke and all borders around context menus became a list like a minimalist GNU/Linux distro!

Fonts


Konfigurator - Creating Your Own Krusader
Startup
Panel
Colours
General
Advanced
Archives
Dependencies
User Actions
Protocols
Colours
General
Use the default KDE colours
Use alternate background colour
Show current item even if not focused
Dim the colours of the inactive panel
Colours
Active
Inactive
Synchroniser
Other
Foreground:
Default
Folder foreground:
Same as foreground
Executable foreground:
Same as foreground
Symbolic link foreground:
Same as foreground
Invalid symlink foreground:
Same as foreground
Background:
Default
Alternate background:
Default
Selected foreground:
Default
Selected background:
Default
Alternate selected background:
Same as selected background
Current foreground:
Not used
Selected current foreground:
Not used
Current background:
Not used
Preview
Colours
Folder
File
Application
Symbolic link
Invalid symlink
Current
Selected 1
Selected 2
Selected + Current
Import colour-scheme
Export colour-scheme
Help
Reset
Restore Defaults
Apply
Close

Keyboard & Mouse:

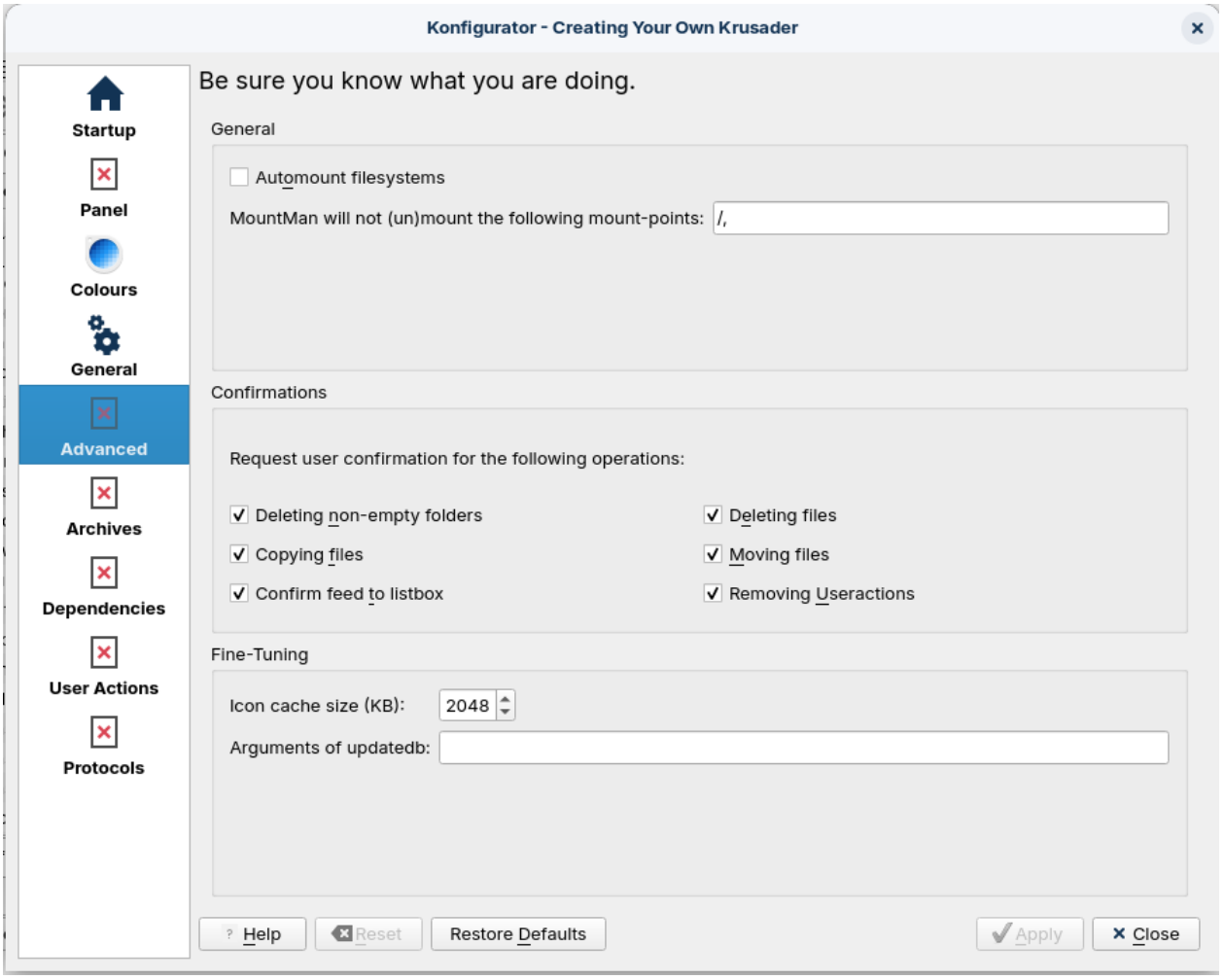
Startup Applications:


Konfigurator - Creating Your Own Krusader
Startup
Panel
Colours
General
Advanced
Archives
Dependencies
User Actions
Protocols
Basic Operations
General
Viewer/Editor
Atomic extensions
Internal editor and viewer opens each file in a separate window
Viewer
Default viewer mode:
Generic mode
Text mode
Hex mode
Lister mode
Use Okteta as Hex viewer
Use lister if the text file is bigger than:
10
MB
Editor
Editor:
internal editor
Hint: use 'internal editor' if you want to use Krusader's fast built-in editor
Help
Reset
Restore Defaults
Apply
Close

Top Bar:

Window Titlebars:

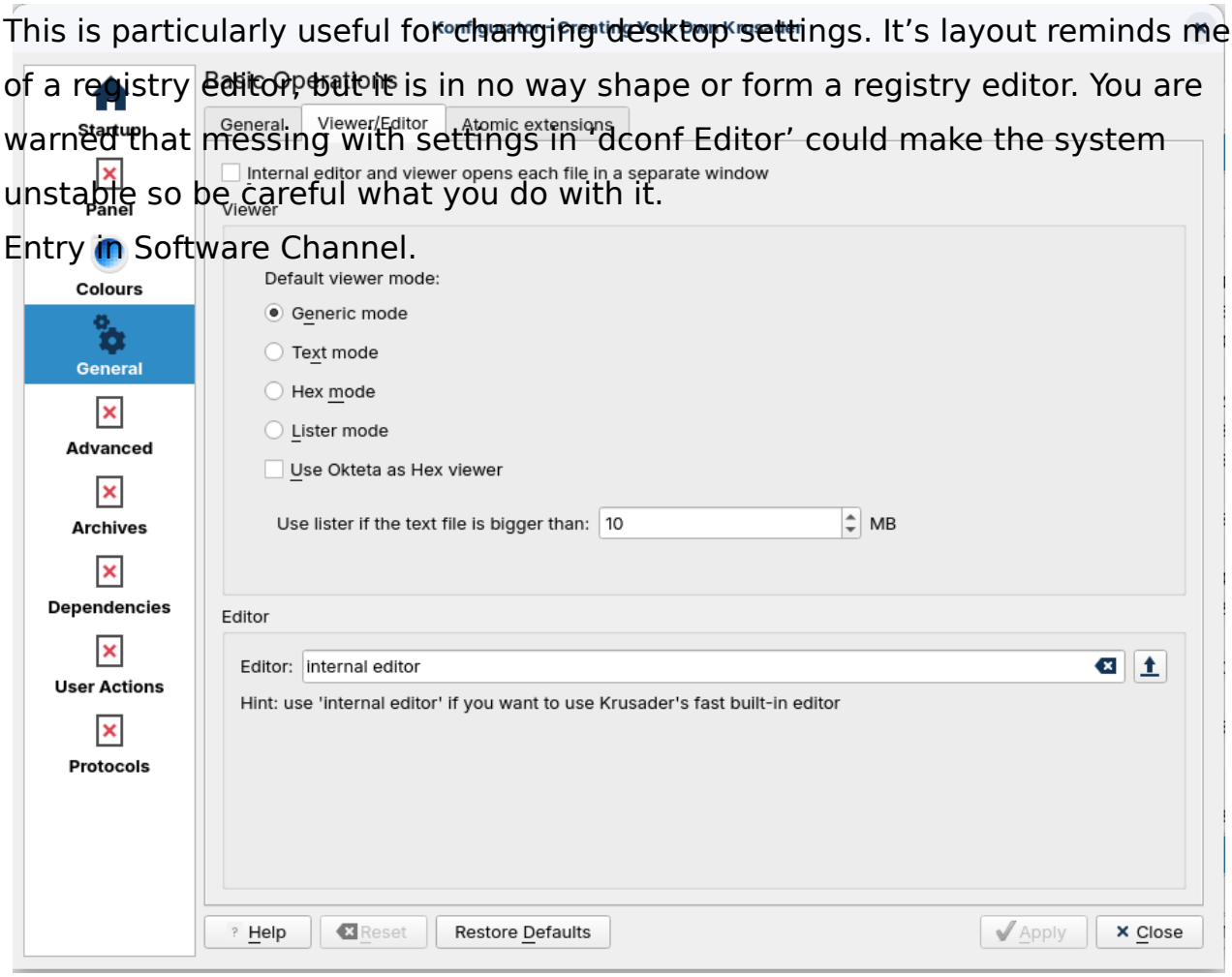
Windows:


Konfigurator - Creating Your Own Krusader
Startup
Panel
Colours
General
Advanced
Archives
Dependencies
User Actions
Protocols
Be sure you know what you are doing.
General
Automount filesystems
MountMan will not (un)mount the following mount-points: /,
Confirmations
Request user confirmation for the following operations:
Deleting non-empty folders
Deleting files
Copying files
Moving files
Confirm feed to listbox
Removing Useractions
Fine-Tuning
Icon cache size (KB): 2048
Arguments of updatedb:
Help
Reset
Restore Defaults
Apply
Close

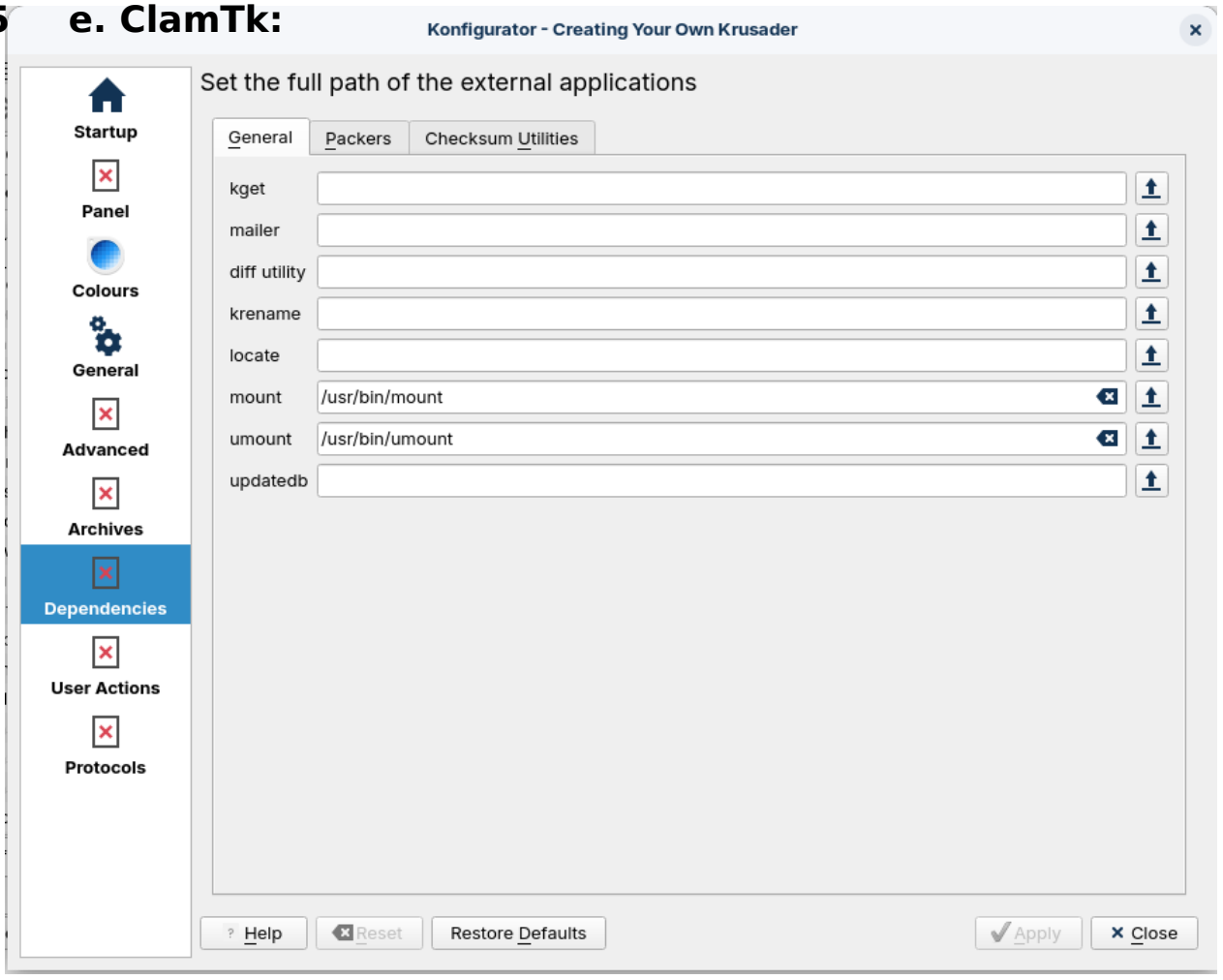
4 d. Dconf Editor

This is particularly useful for changing desktop settings. It’s layout reminds me of a registry editor, but it is in no way shape or form a registry editor. You are warned that messing with settings in ‘dconf Editor’ could make the system unstable so be careful what you do with it.

Entry in Software Channel.

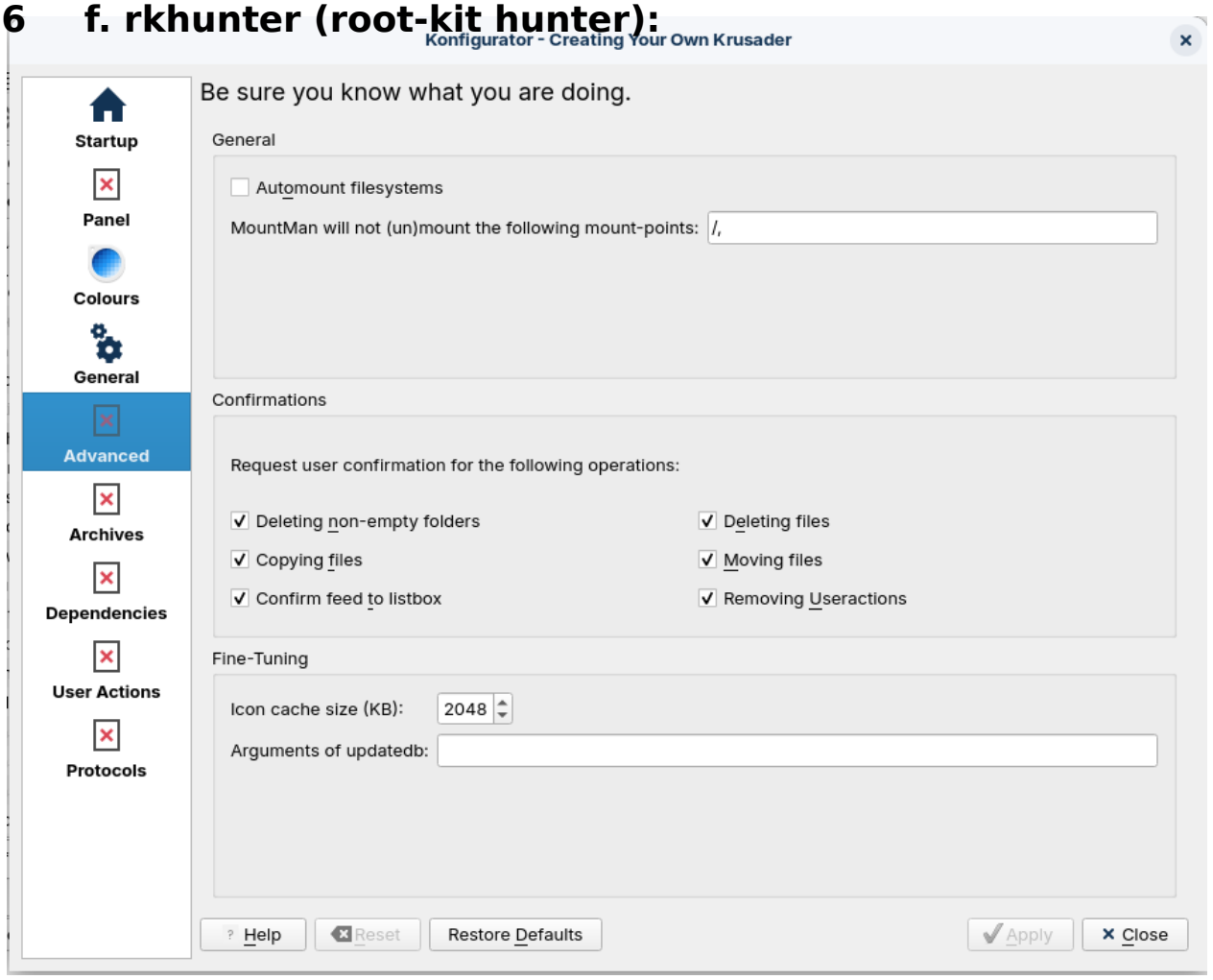


5e. ClamTk:



This is the AV software for GNU/Linux – installing ClamTk not only installs the back-end of Clam AV but also It's graphical front-end shown in screen shot – you can schedule updates to be done automatically. There are two entries in Software channel - choose the second one as the top one is from flathub.

6 f. rkhunter (root-kit hunter):



This has to be installed via Synaptic Package Manager, it is not available in the Software Channel. This has to be run via the Terminal but is easy enough to do.

Be advised that you may get some error reporting about some changes – rkhunter looks at what the system looked like when it was installed and uses that as the base-line, so when kernels and other security updates get installed it compares the system with the earlier installs and will give a false-positive. You will just need to update it's baseline accordingly.Here is a link to the website for download information and important README:

http://rkhunter.sourceforge.net/

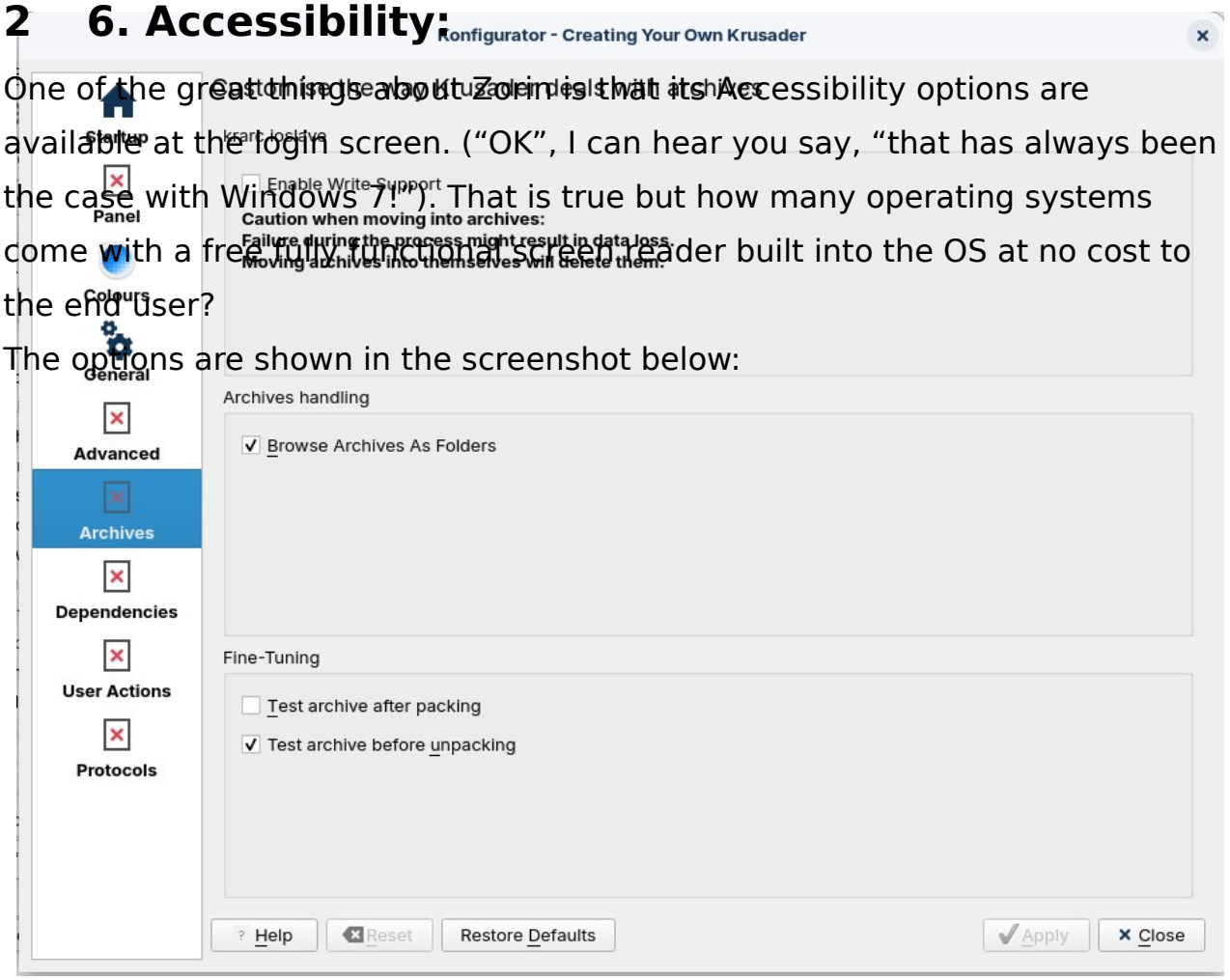
and why you should install it:

http://resources.infosecinstitute.com/need-know-linux-rootkits/

2 6. Accessibility:

One of the great things about Zorin is that its Accessibility options are available at the login screen. (“OK”, I can hear you say, “that has always been the case with Windows 7!”). That is true but how many operating systems come with a free fully functional screen reader built into the OS at no cost to the end user?

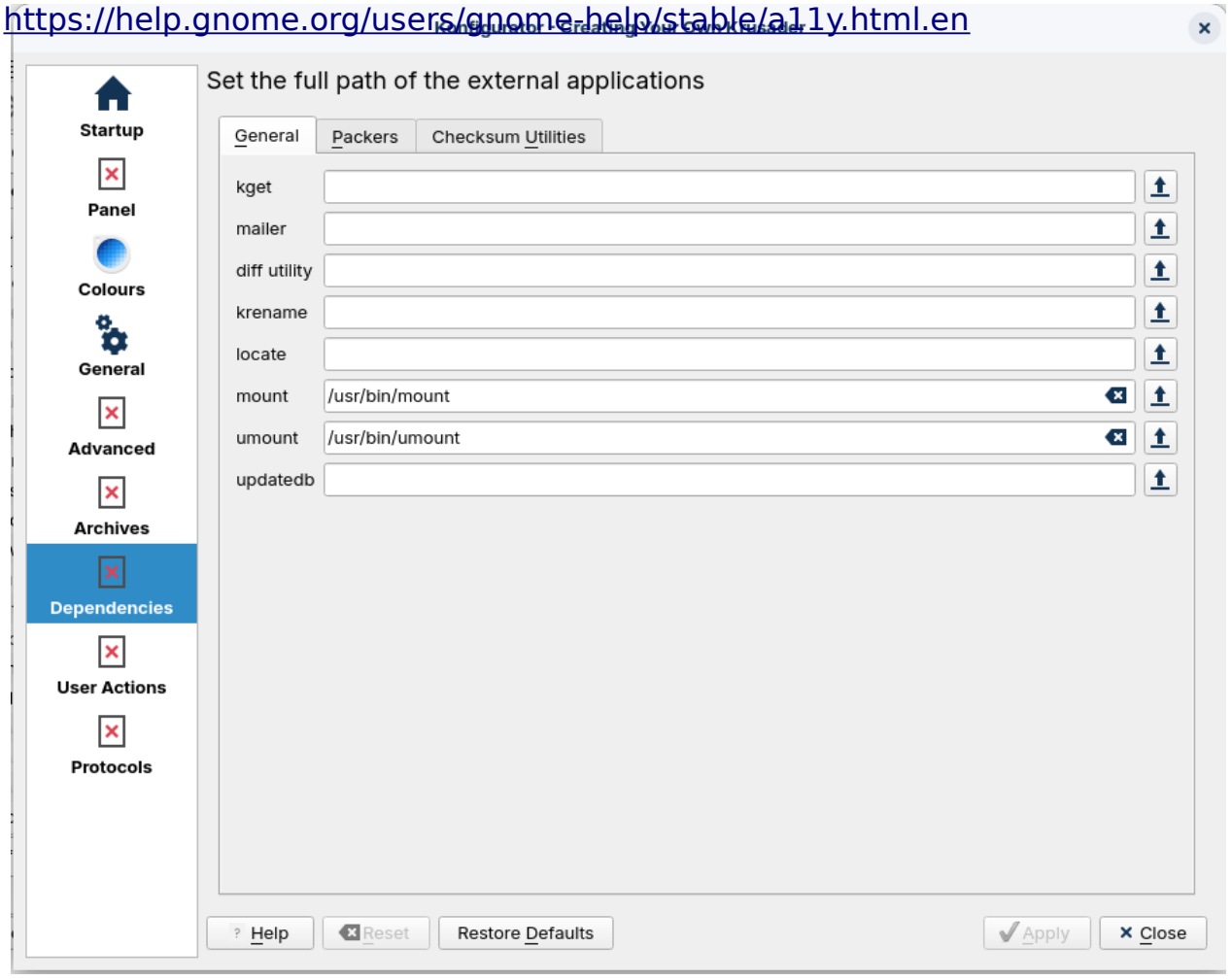
The options are shown in the screenshot below:



All the options available are currently switched off in the picture above: High Contrast (Top/First option), Zoom, Large Text, Screen Reader, Screen Keyboard, Visual Alerts, Sticky Keys, Slow Keys, Bounce Keys, Mouse Keys. To turn a function on, simply press the space bar. At present I cannot discover if the ‘menu’ or ‘right-mouse key’ key will activate the accessibility menu as I am using a gaming keyboard which has a ‘backlight’ key where normally a ‘right-mouse button’ key would reside. However, using Alt+ Super+ S will start the screen reader function.

Full details here:

https://help.gnome.org/users/gnome-help/stable/a11y.html.en



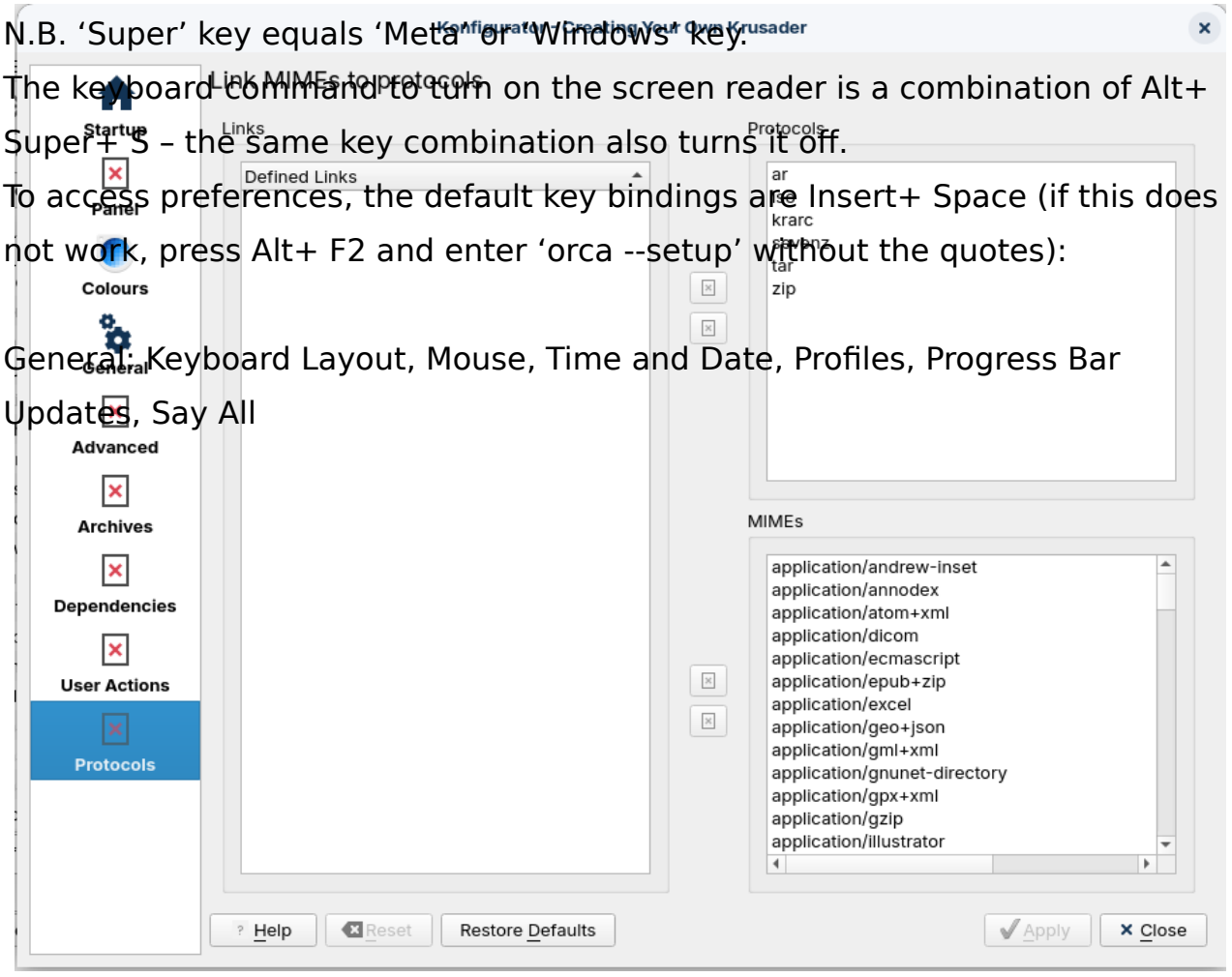
Screen Reader (Orca):

N.B. ‘Super’ key equals ‘Meta’ or ‘Windows’ key.

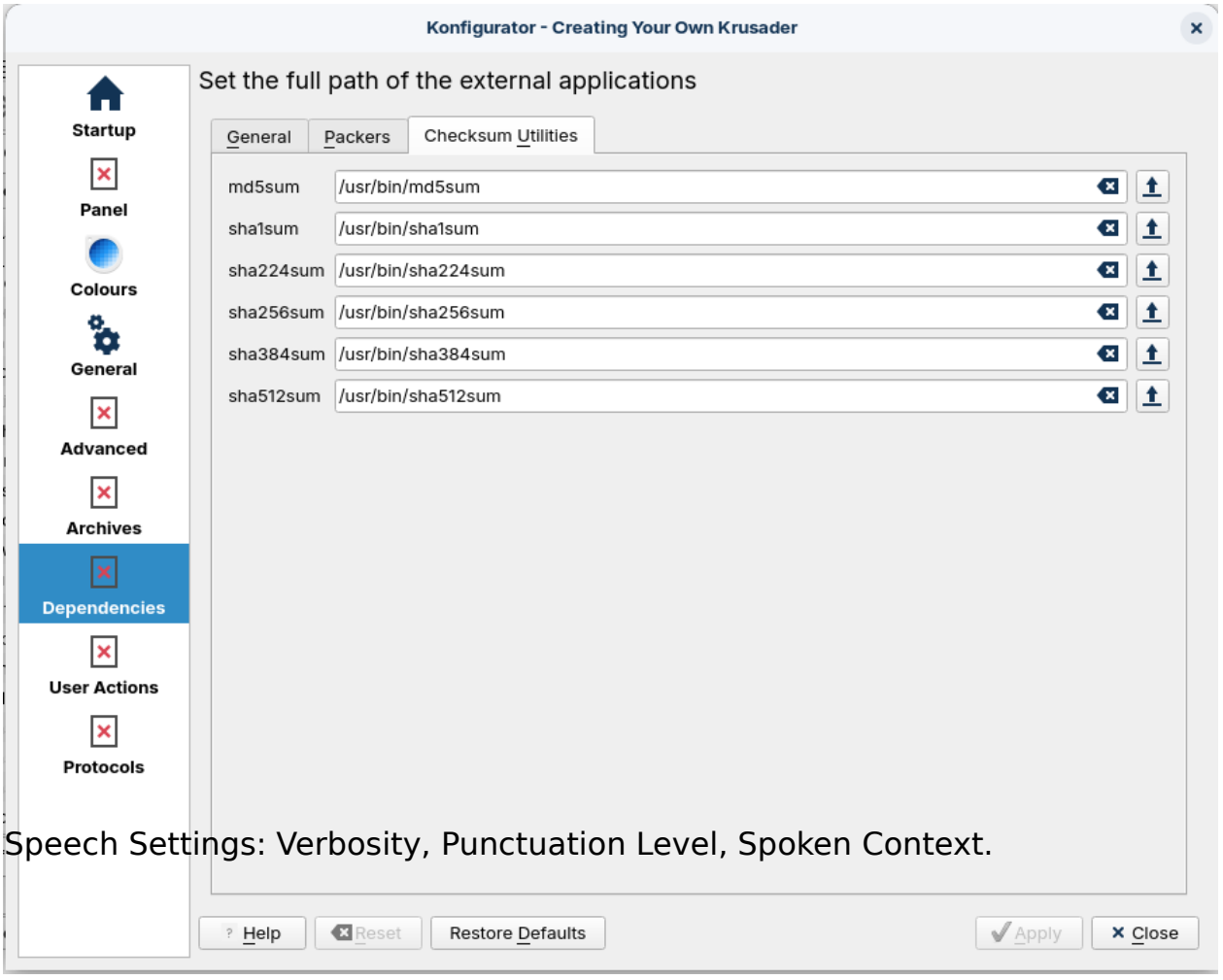
The keyboard command to turn on the screen reader is a combination of Alt+ Super+ S – the same key combination also turns it off.

To access preferences, the default key bindings are Insert+ Space (if this does not work, press Alt+ F2 and enter ‘orca --setup’ without the quotes):

General: Keyboard Layout, Mouse, Time and Date, Profiles, Progress Bar Updates, Say All

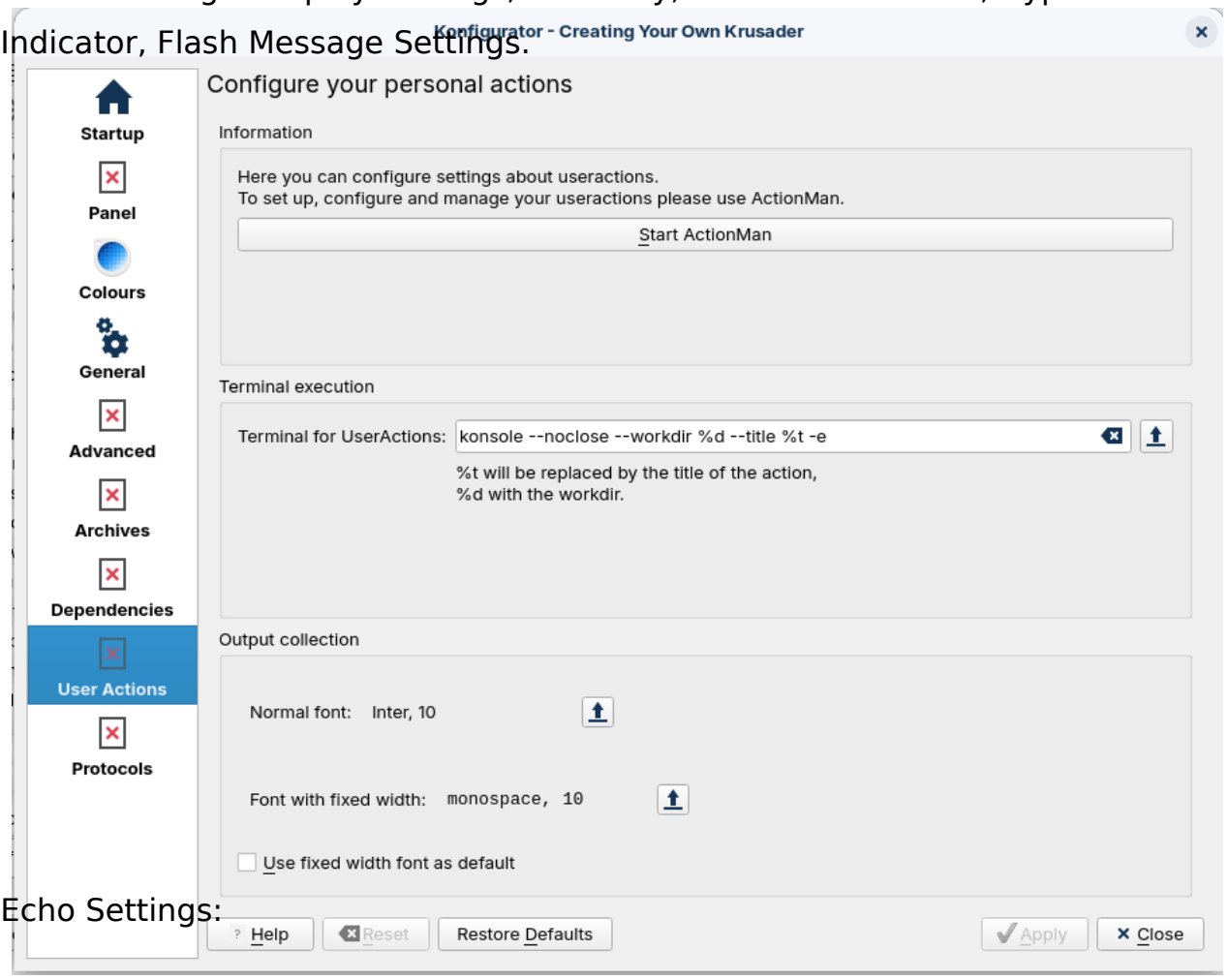


Choice of Voice: Voice Type Settings, Global Voice Settings

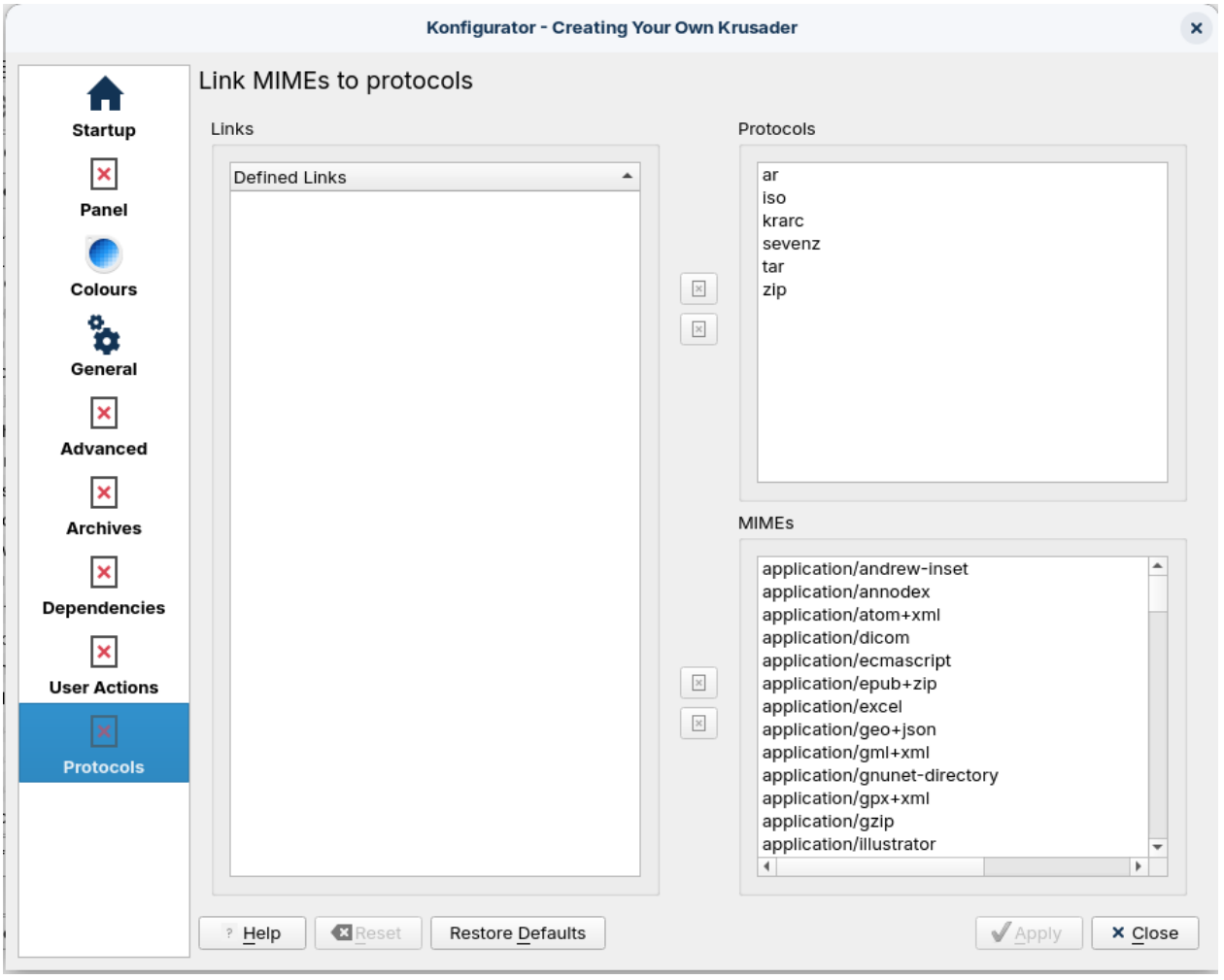


Speech Settings: Verbosity, Punctuation Level, Spoken Context.

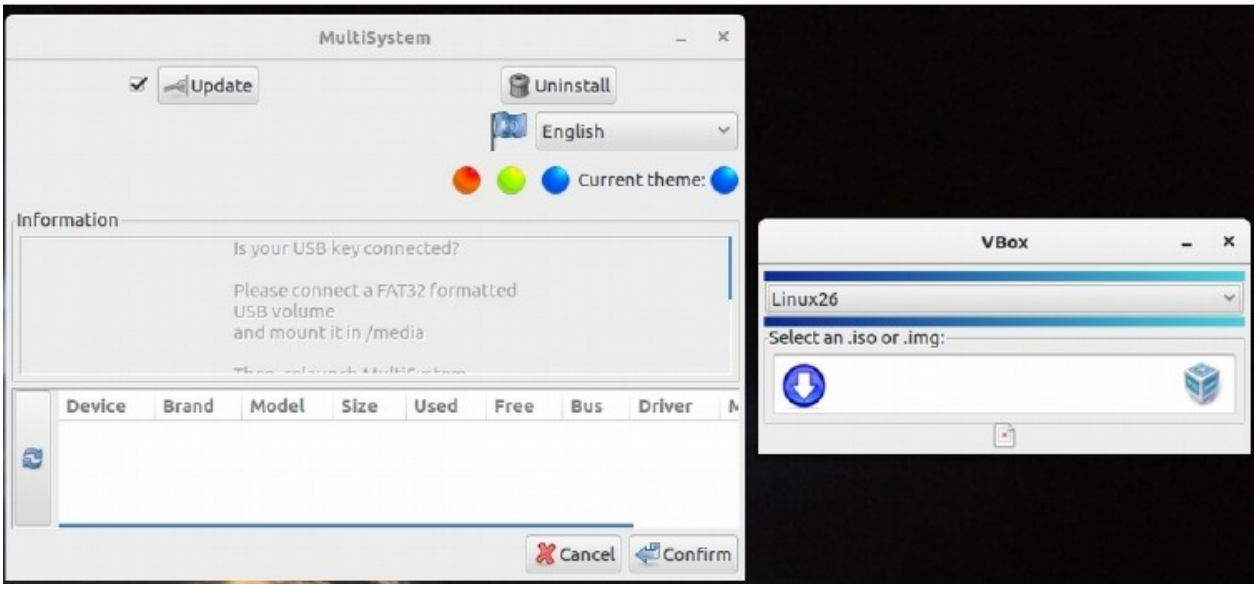
Braille Settings: Display Settings, Verbosity, Selection Indicator, Hyperlink Indicator, Flash Message Settings.



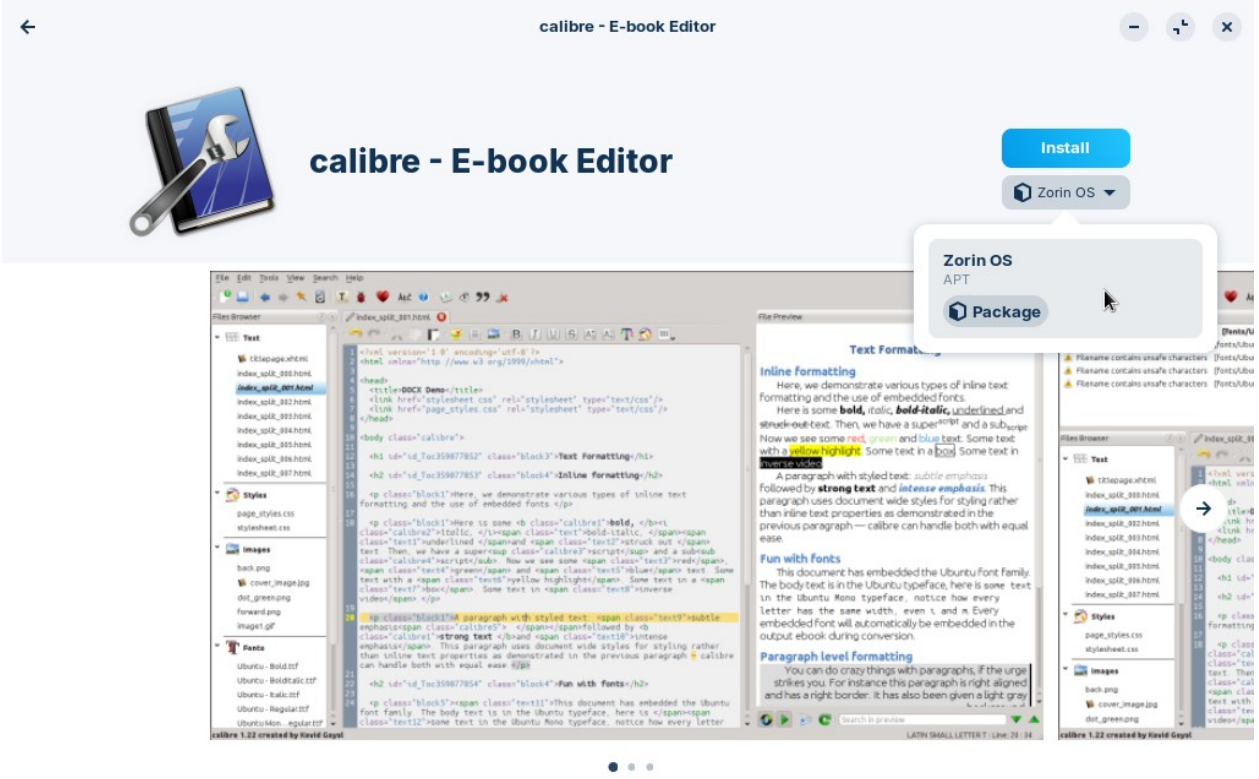
Echo Settings:


Konfigurator - Creating Your Own Krusader
Startup
Panel
Colours
General
Advanced
Archives
Dependencies
User Actions
Protocols
Link MIMEs to protocols
Links
Defined Links
Protocols
ar
iso
krarc
sevenz
tar
zip
MIMEs
application/andrew-inset
application/annodex
application/atom+xml
application/dicom
application/ecmascript
application/epub+zip
application/excel
application/geo+json
application/gml+xml
application/gnunet-directory
application/gpx+xml
application/gzip
application/illustrator
Help
Reset
Restore Defaults
Apply
Close

Key Bindings (Default 1)



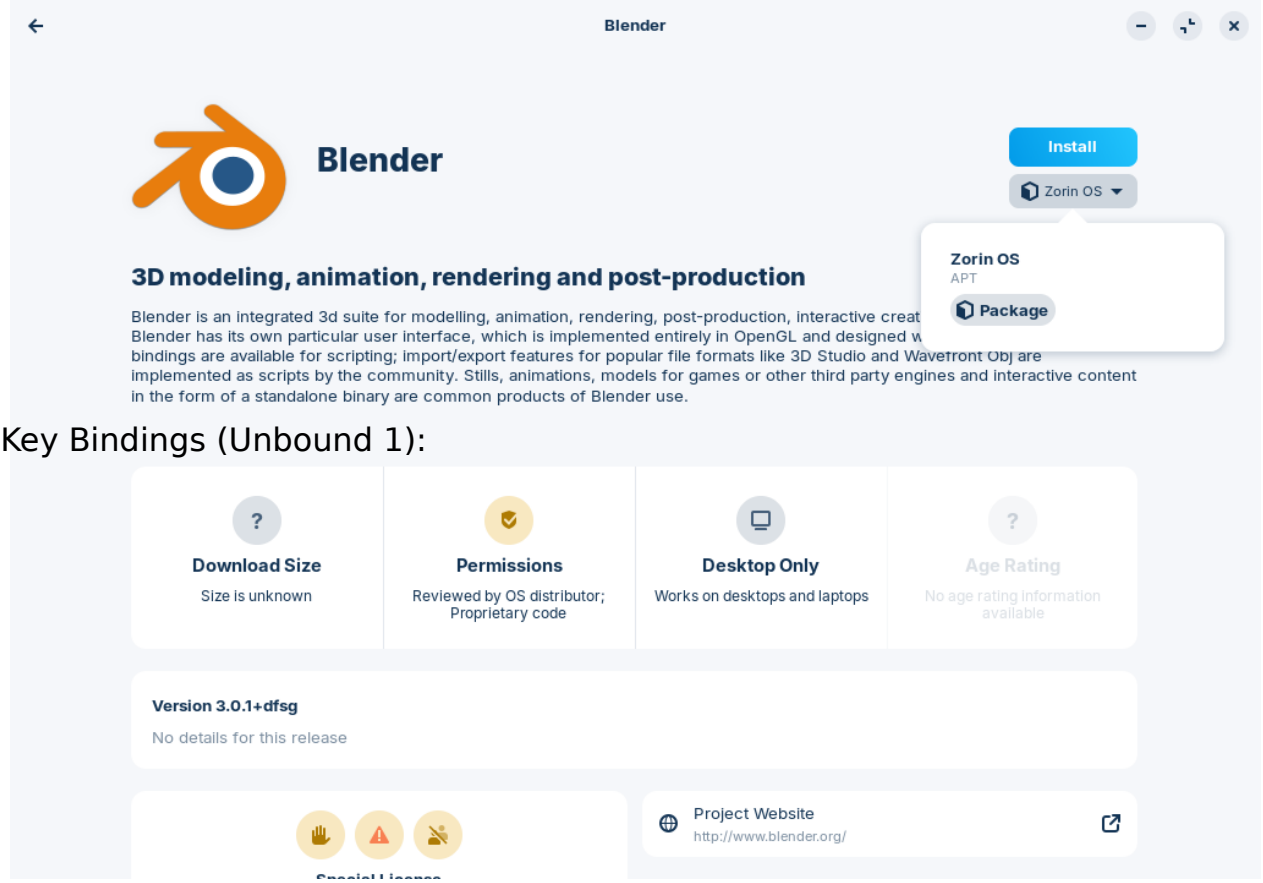
Key Bindings (Default 2):



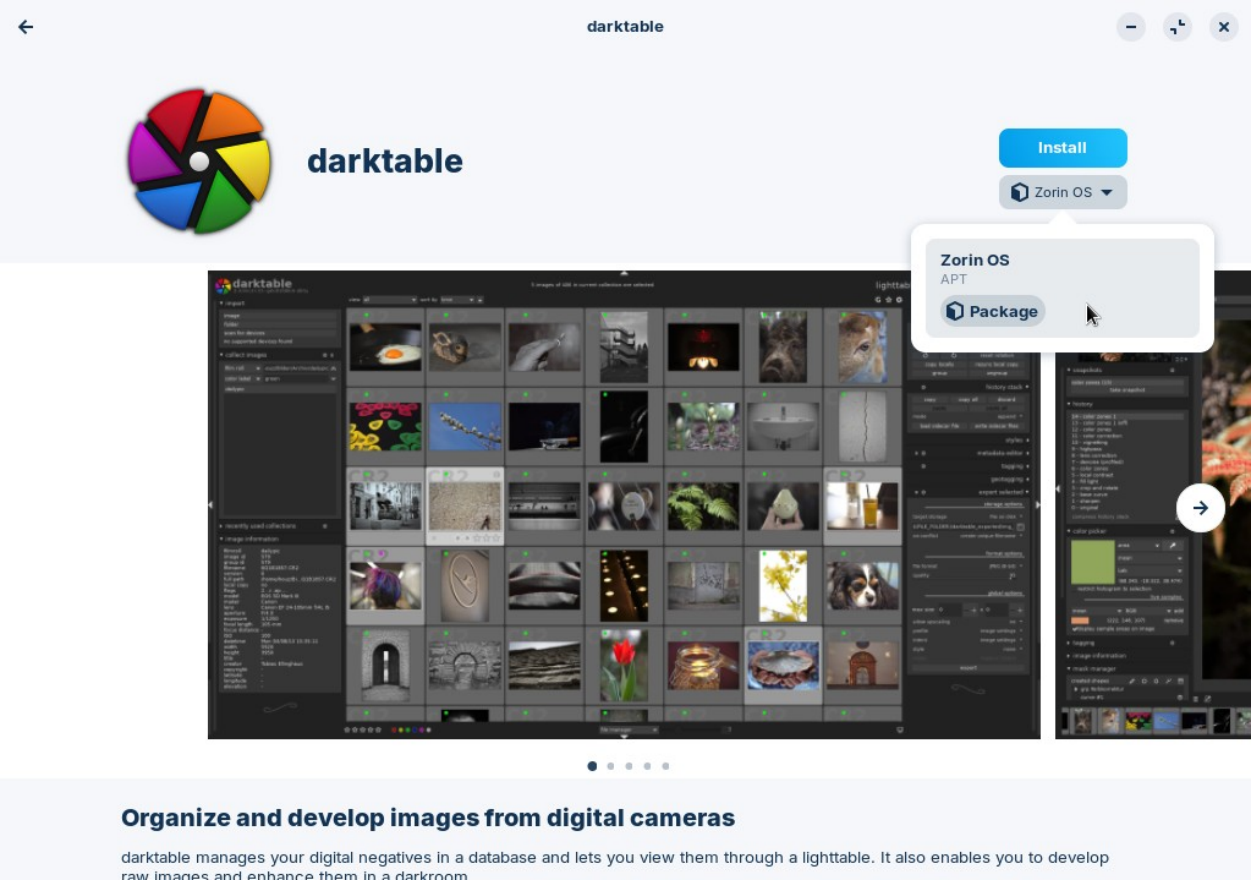
Edit the text and styles inside e-books

The calibre E-book editor allows you to edit the text and styles inside the book with a live preview of your changes.

Key Bindings (Default 3):

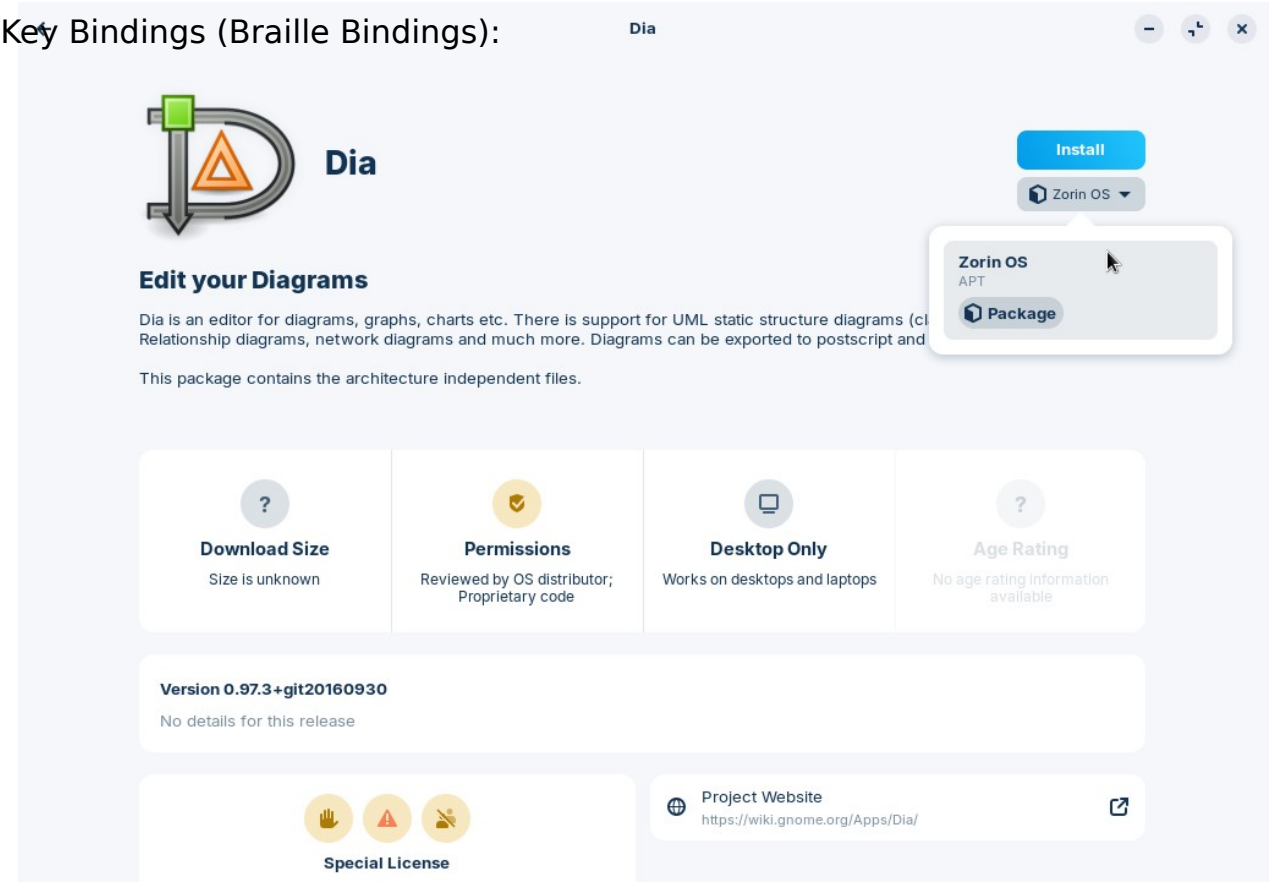

Blender
Blender
Install
Zorin OS
Zorin OS
APT
Package
3D modeling, animation, rendering and post-production
Blender is an integrated 3d suite for modelling, animation, rendering, post-production, interactive creat
Blender has its own particular user interface, which is implemented entirely in OpenGL and designed w
bindings are available for scripting; import/export features for popular file formats like 3D Studio and Wavefront Obj are
implemented as scripts by the community. Stills, animations, models for games or other third party engines and interactive content
in the form of a standalone binary are common products of Blender use.

Key Bindings (Unbound 1):

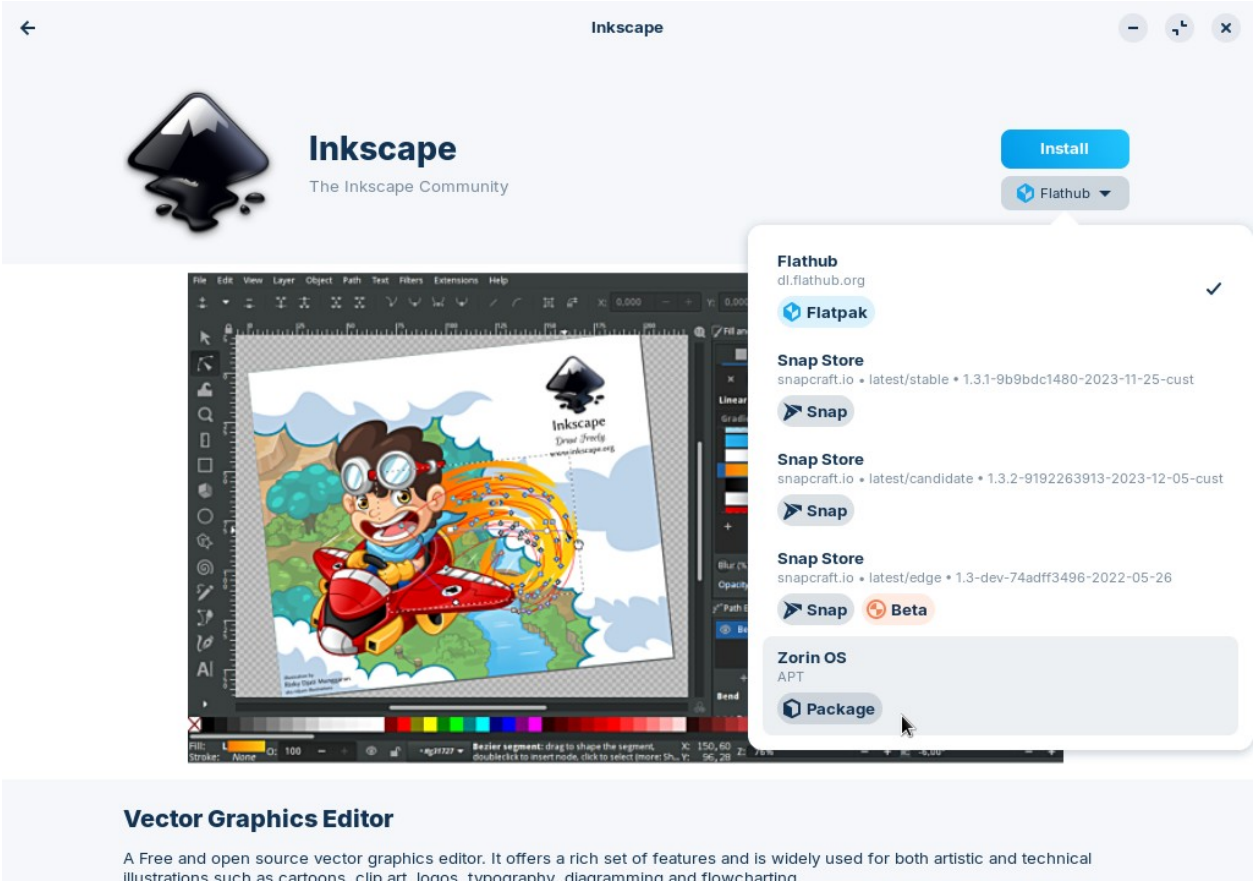

darktable
darktable
Install
Zorin OS
Zorin OS
APT
Package
Organize and develop images from digital cameras
darktable manages your digital negatives in a database and lets you view them through a lighttable. It also enables you to develop raw images and enhance them in a darkroom

Key Bindings (Unbound 2):

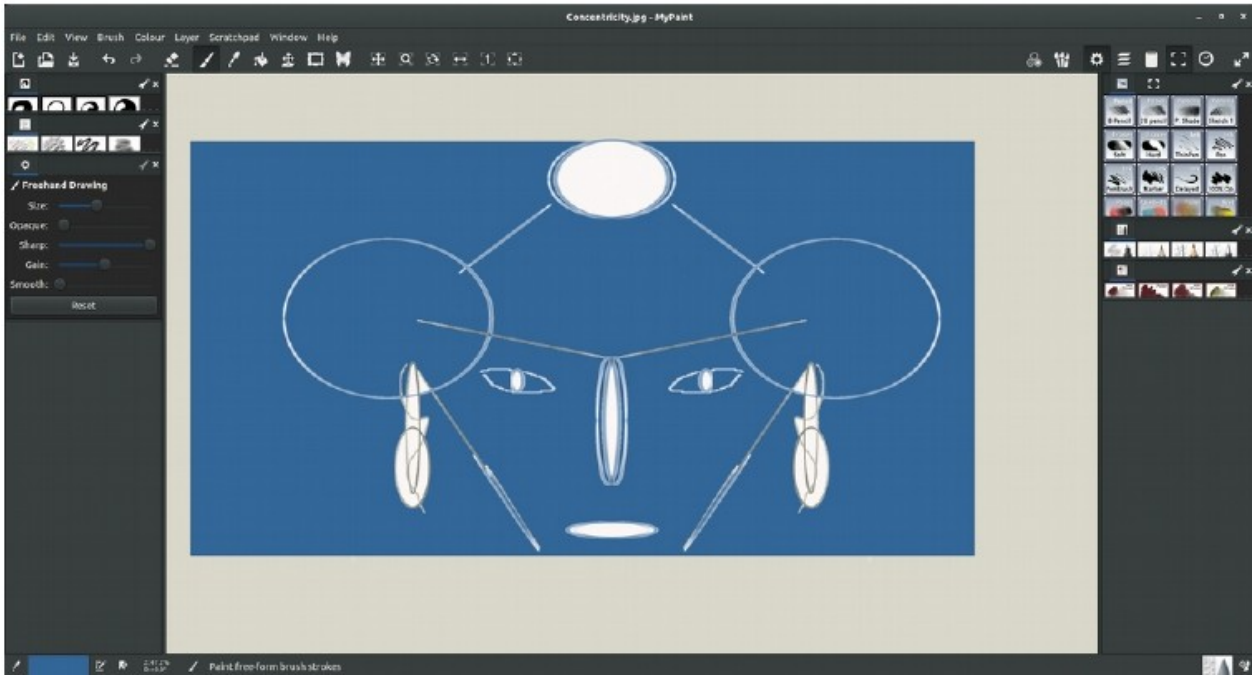
Key Bindings (Braille Bindings):



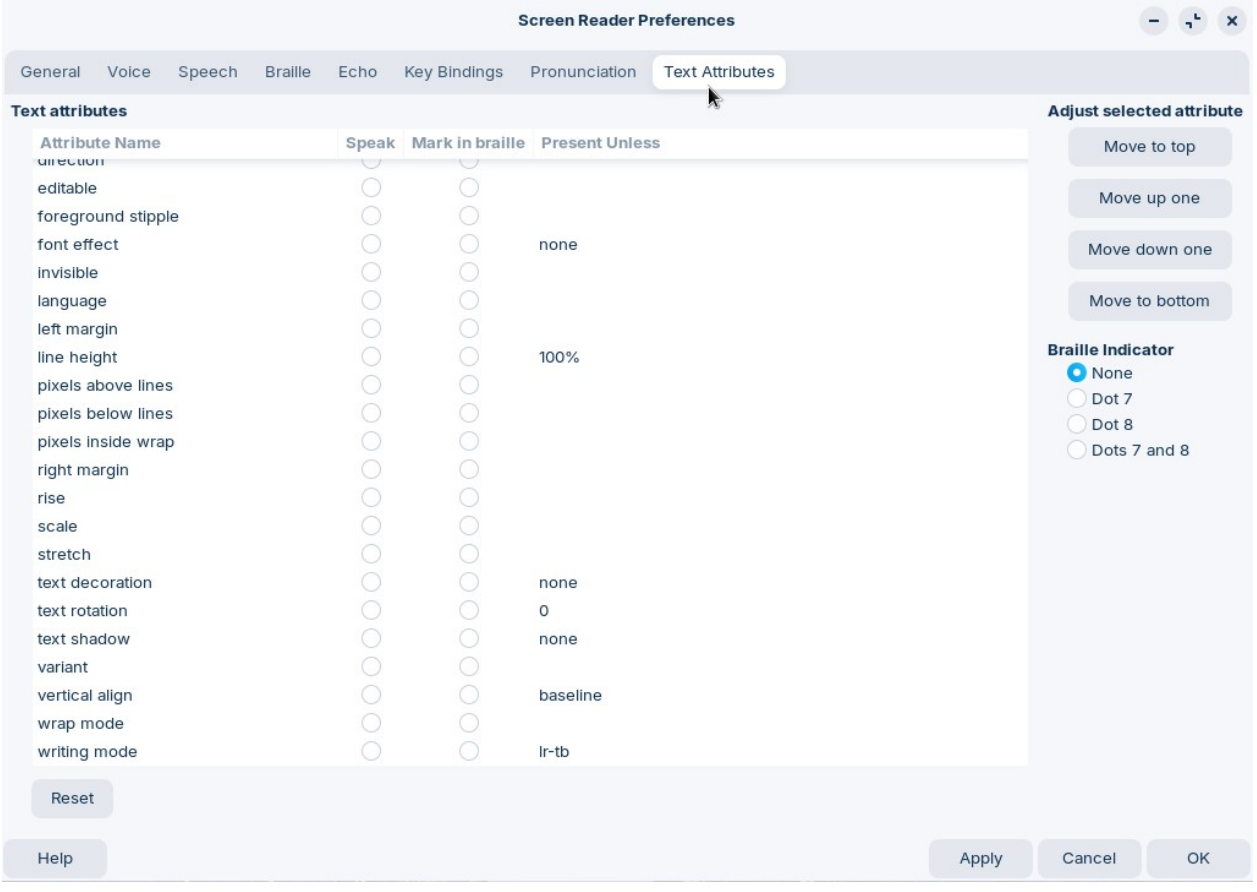
Pronunciation:

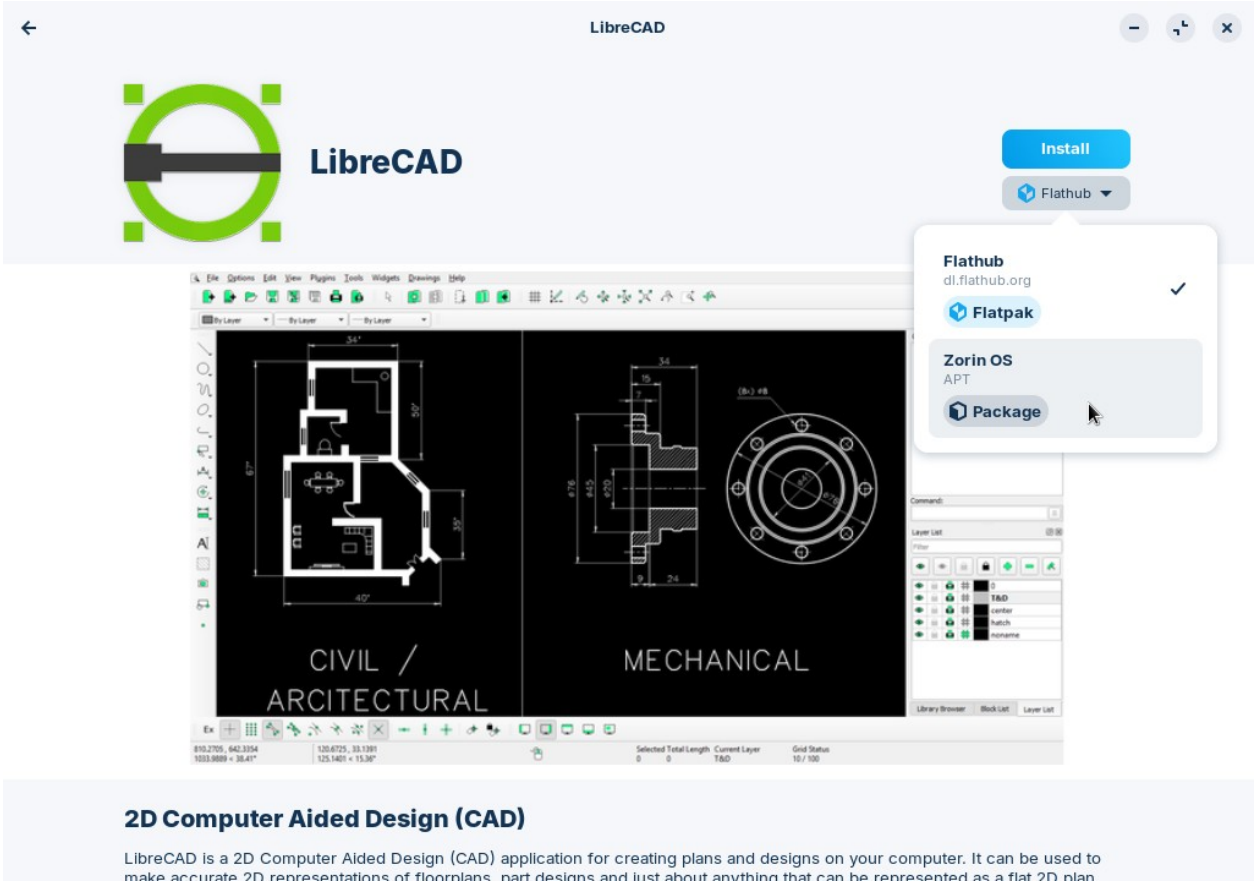


Text Attributes (top):



Text Attributes (bottom):





2D Computer Aided Design (CAD)

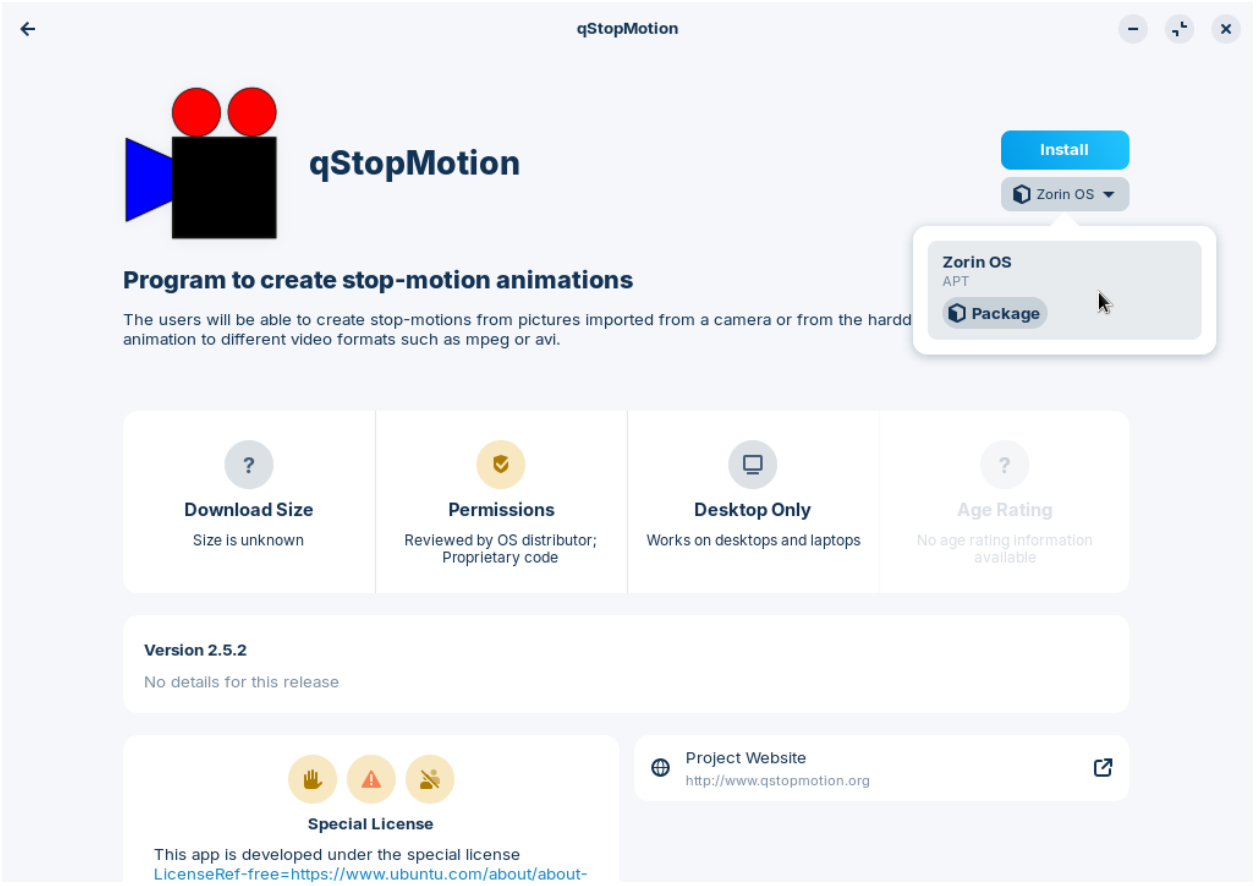
LibreCAD is a 2D Computer Aided Design (CAD) application for creating plans and designs on your computer. It can be used to make accurate 2D representations of floorplans, part designs and just about anything that can be represented as a flat 2D plan

3 7. Recommended Applications:

27 a. PDF Mod (by Novell, the makers of Open SuSE): Available from ‘Software’ or via Synaptic.

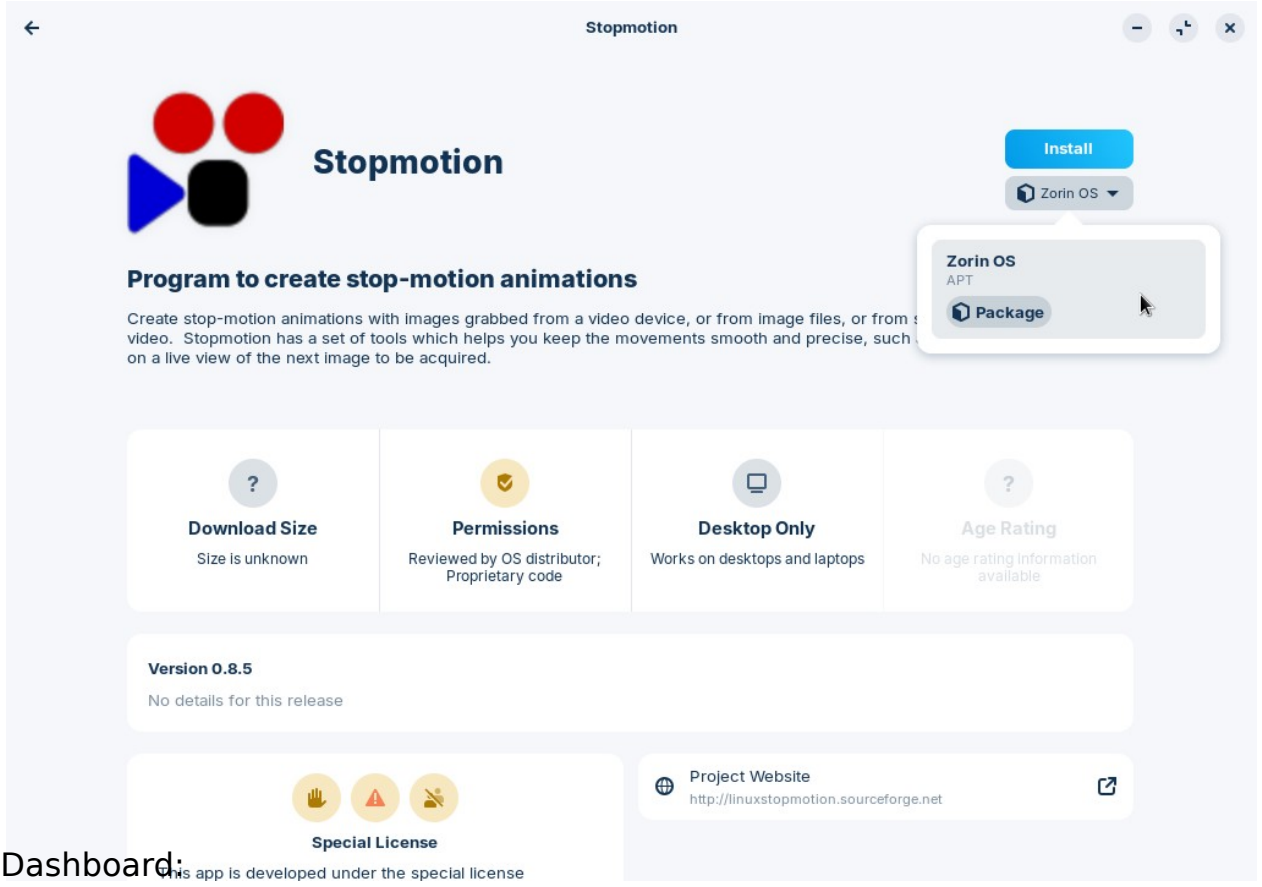
1 b. Shutter:

More versatile than the bundled ‘Screenshot’. Can be installed from Software Channel or via Synaptic.



2

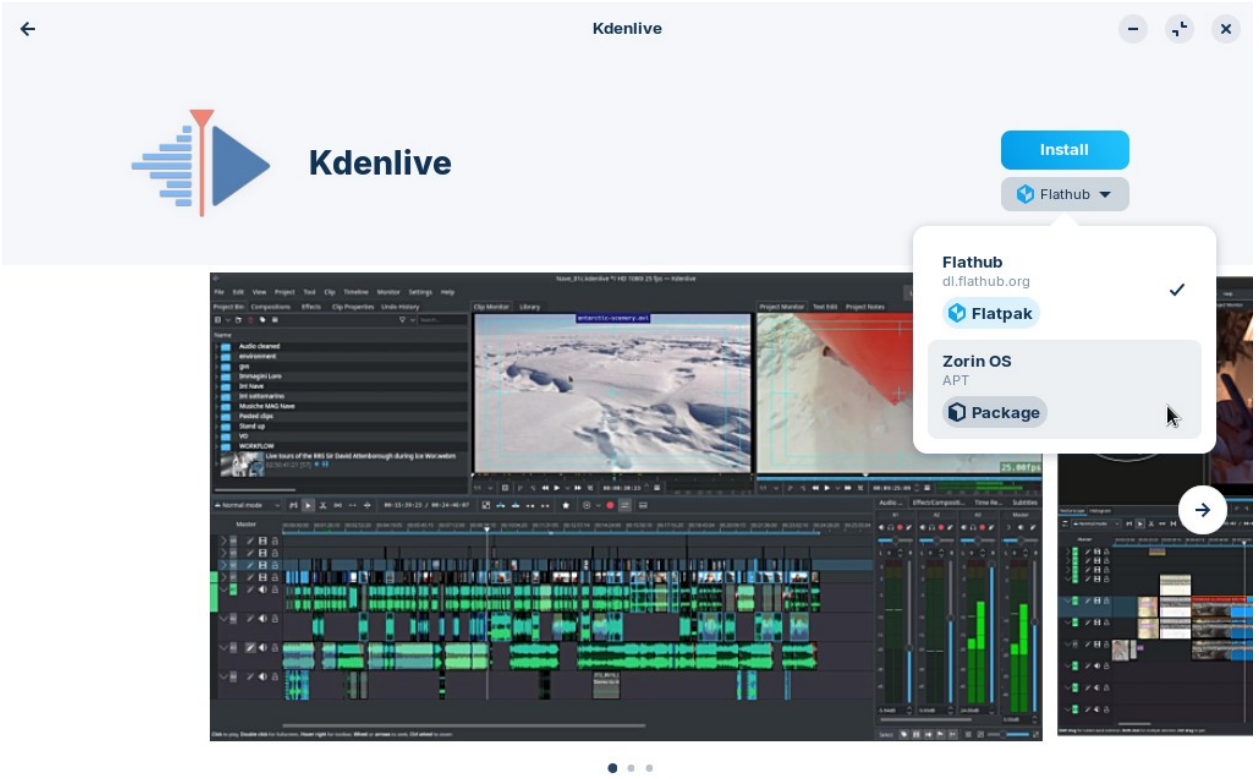
28 **c. Stacer:** - available in the Software Channel:


Stopmotion
Stopmotion
Install
Zorin OS
Zorin OS
APT
Package
Program to create stop-motion animations
Create stop-motion animations with images grabbed from a video device, or from image files, or from
video. Stopmotion has a set of tools which helps you keep the movements smooth and precise, such
on a live view of the next image to be acquired.
Download Size
Size is unknown
Permissions
Reviewed by OS distributor; Proprietary code
Desktop Only
Works on desktops and laptops
Age Rating
No age rating information available
Version 0.8.5
No details for this release
Special License
This app is developed under the special license
Project Website
http://linuxstopmotion.sourceforge.net

Dashboard:

Scribus
Scribus
Install
Flathub
Flathub
dl.flathub.org
Flatpak
Zorin OS
APT
Package
Options:
Brightnes
Open Source Page Layout and Desktop Publishing (DTP)
Scribus is a open source page layout program which produces commercial grade output in PDF and Postscript, primarily, though
not exclusively, for Linux

Startup Applications:

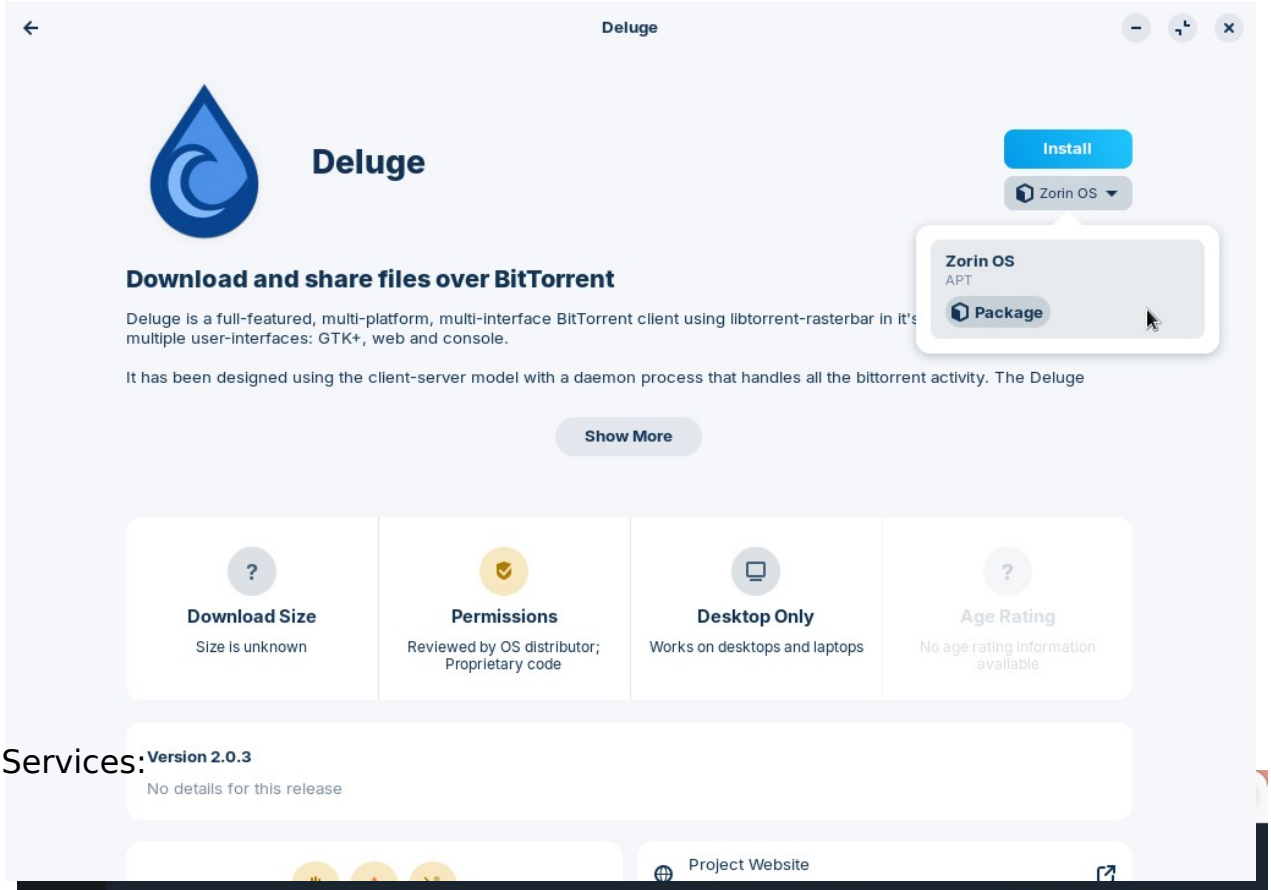


System Cleaner:

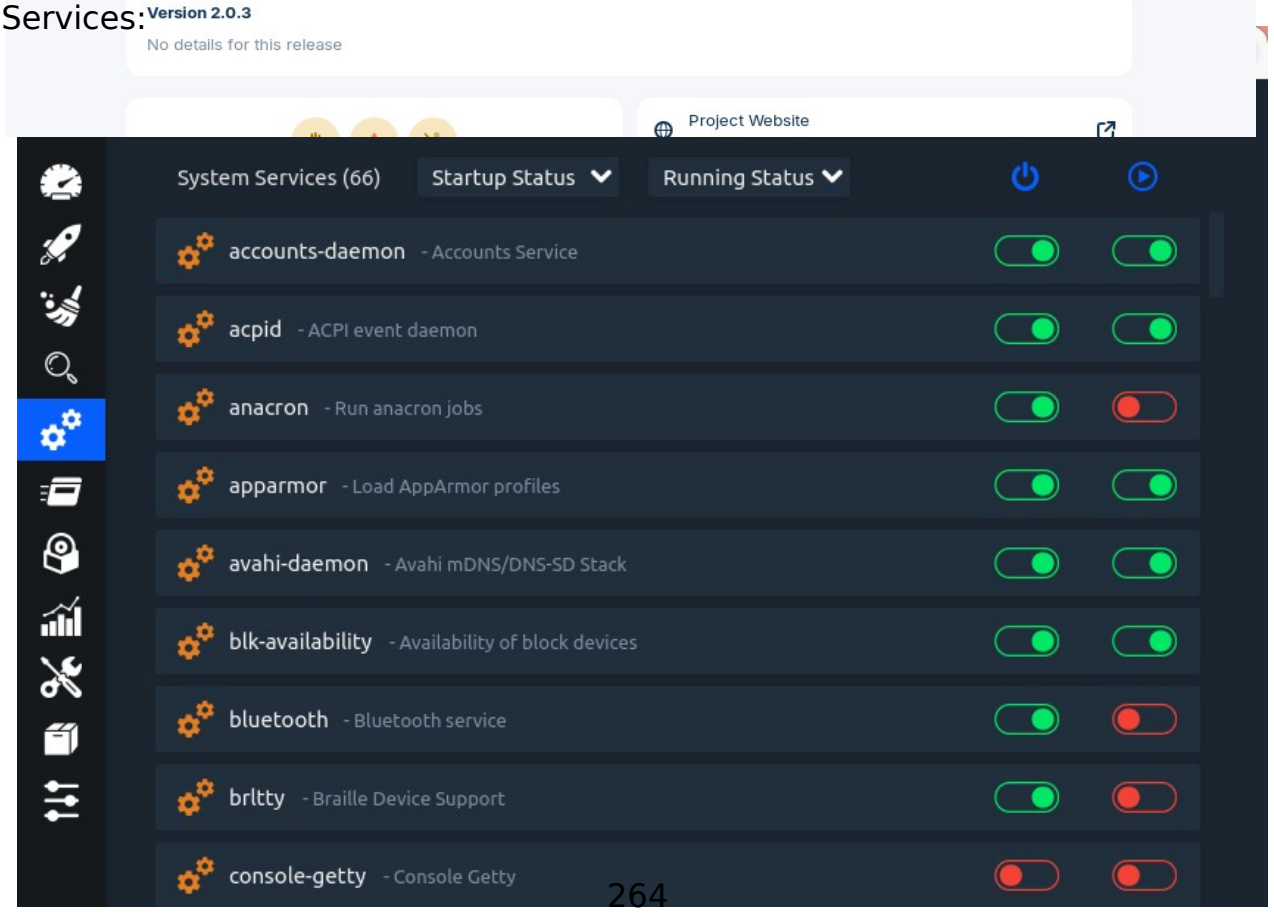
Video Editor
Kdenlive is a non linear video editor. It is based on the MLT framework and accepts many audio and video formats, allows you to
add effects, transitions and render into the format of your choice

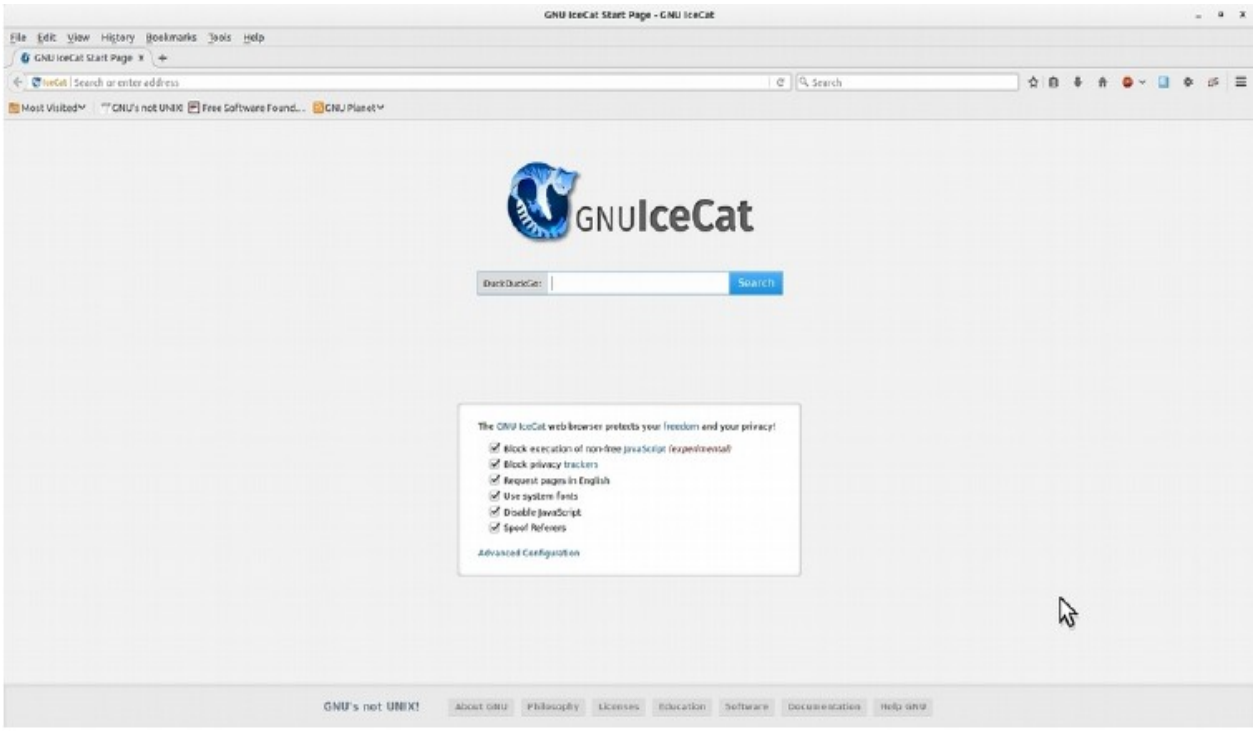
vokoscreen-ng
vokoscreen-ng
Install
Zorin OS
Zorin OS
APT
Package
vokoscreenNG 3.1.0
Fullscreen
HDMI-1 : 1920 x 108(
Window
Area
Information
Record Time: 00:00:00
Free disk space: 22992 MB
Video size: KB
Format mkv
Videocodec H.264
Audiocodec vorbis
Frames 25
Magnification
Countdown
Reset all settings at the next start
Start
Stop
Pause
Play
Folder
Easy to use screencast creator
VokoscreenNG can be used to record videos from computers screen, webcams, external cameras, etc. This graphical tool can

Search (Beta):



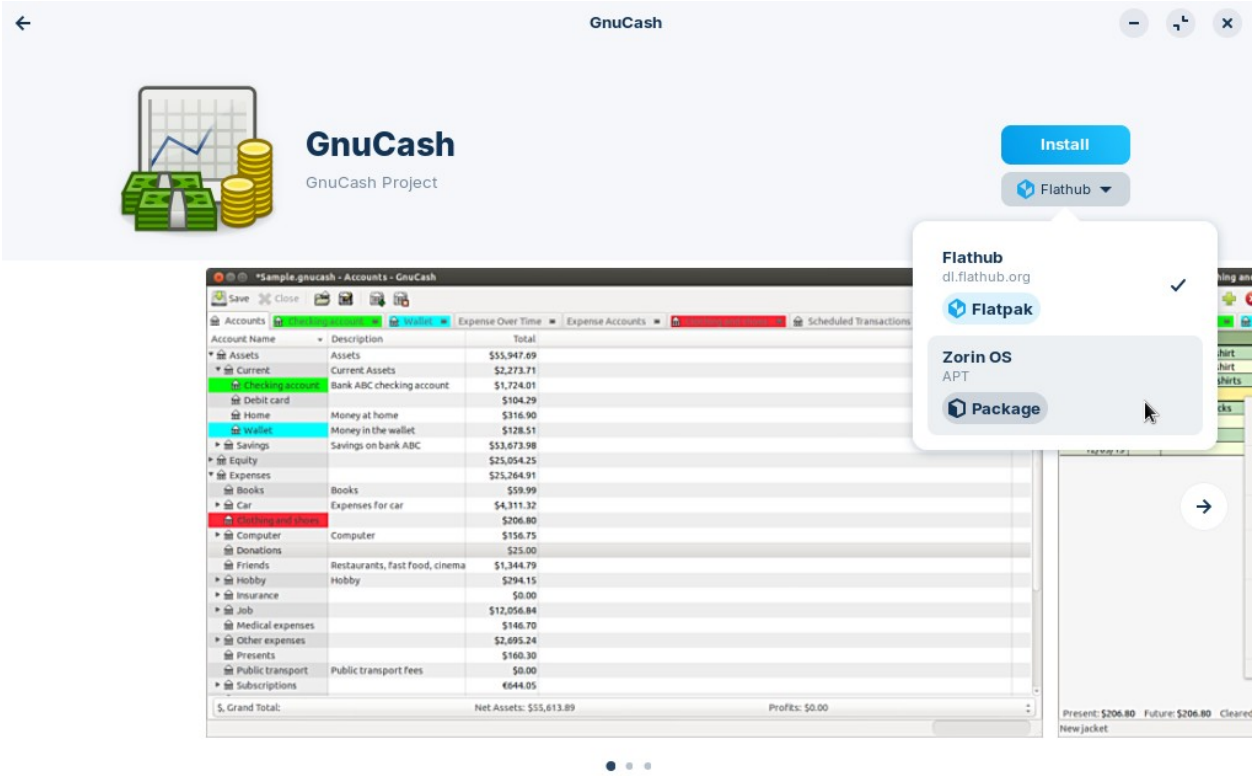
Services:


System Services (66)
Startup Status
Running Status
accounts-daemon - Accounts Service
acpid - ACPI event daemon
anacron - Run anacron jobs
apparmor - Load AppArmor profiles
avahi-daemon - Avahi mDNS/DNS-SD Stack
blk-availability - Availability of block devices
bluetooth - Bluetooth service
brltty - Braille Device Support
console-getty - Console Getty


GNU IceCat Start Page - GNU IceCat
File Edit View History Bookmarks Tools Help
GNU IceCat Start Page
Search or enter address
Search
Most Visited
"GNU's not UNIX!
Free Software Found...
GNU Planet
GNUIceCat
DuckDuckGo
Search
The GNU IceCat web browser protects your freedom and your privacy!
Block execution of non-free JavaScript (experimental)
Block privacy trackers
Request pages in English
Use system fonts
Disable JavaScript
Spoof Referers
Advanced Configuration
GNU's not UNIX!
About GNU
Philosophy
Licenses
Education
Software
Documentation
Help GNU

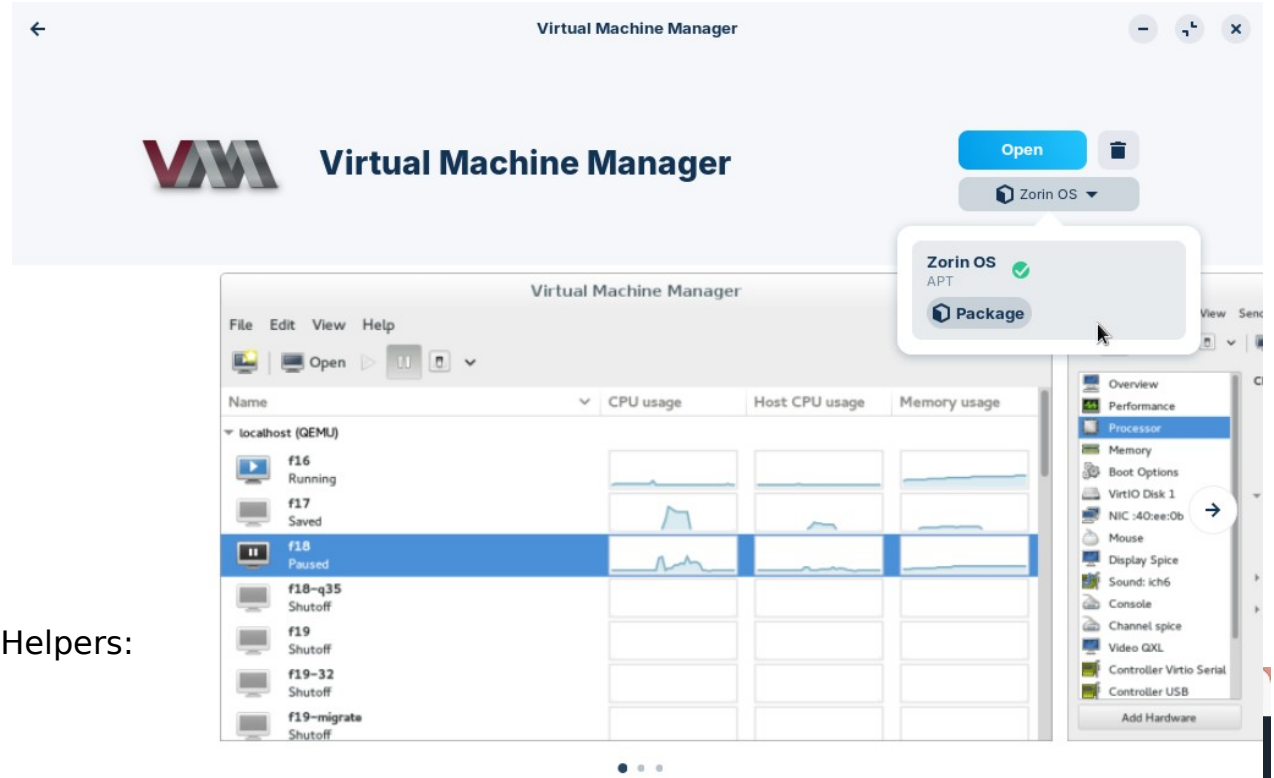
Processes:

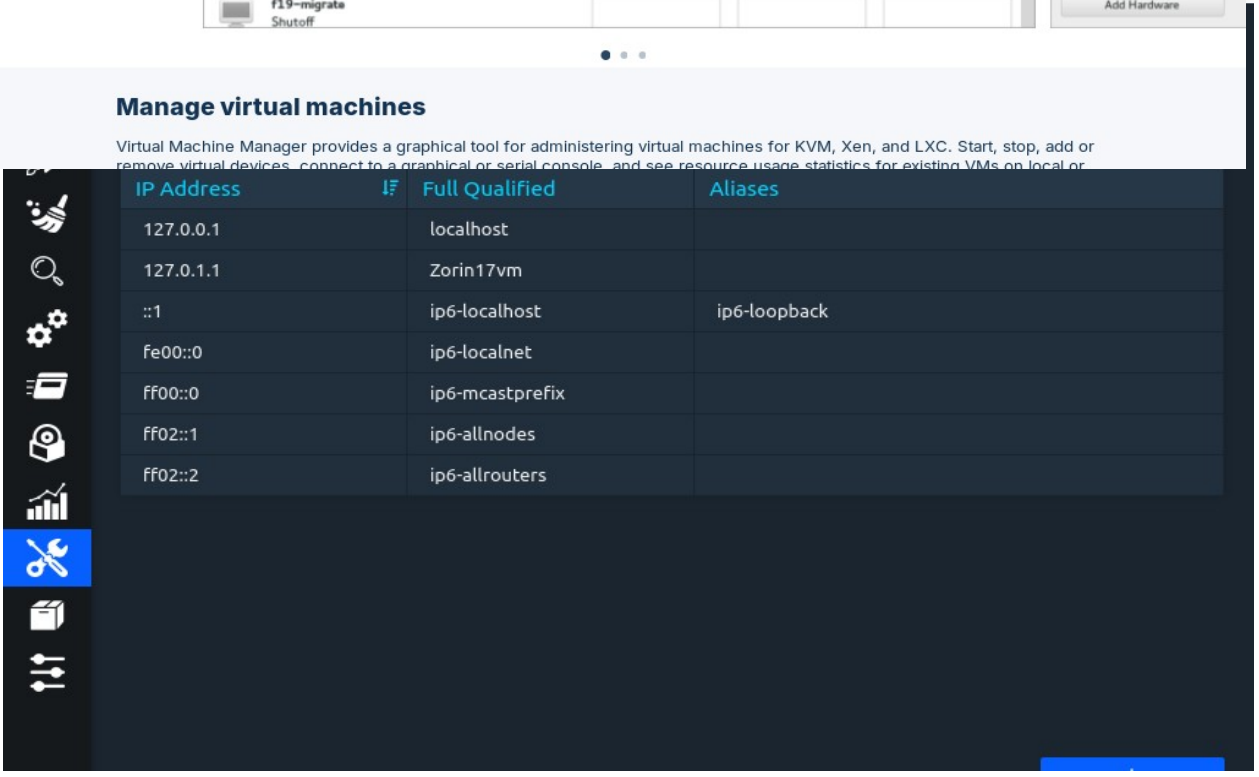
Uninstaller:

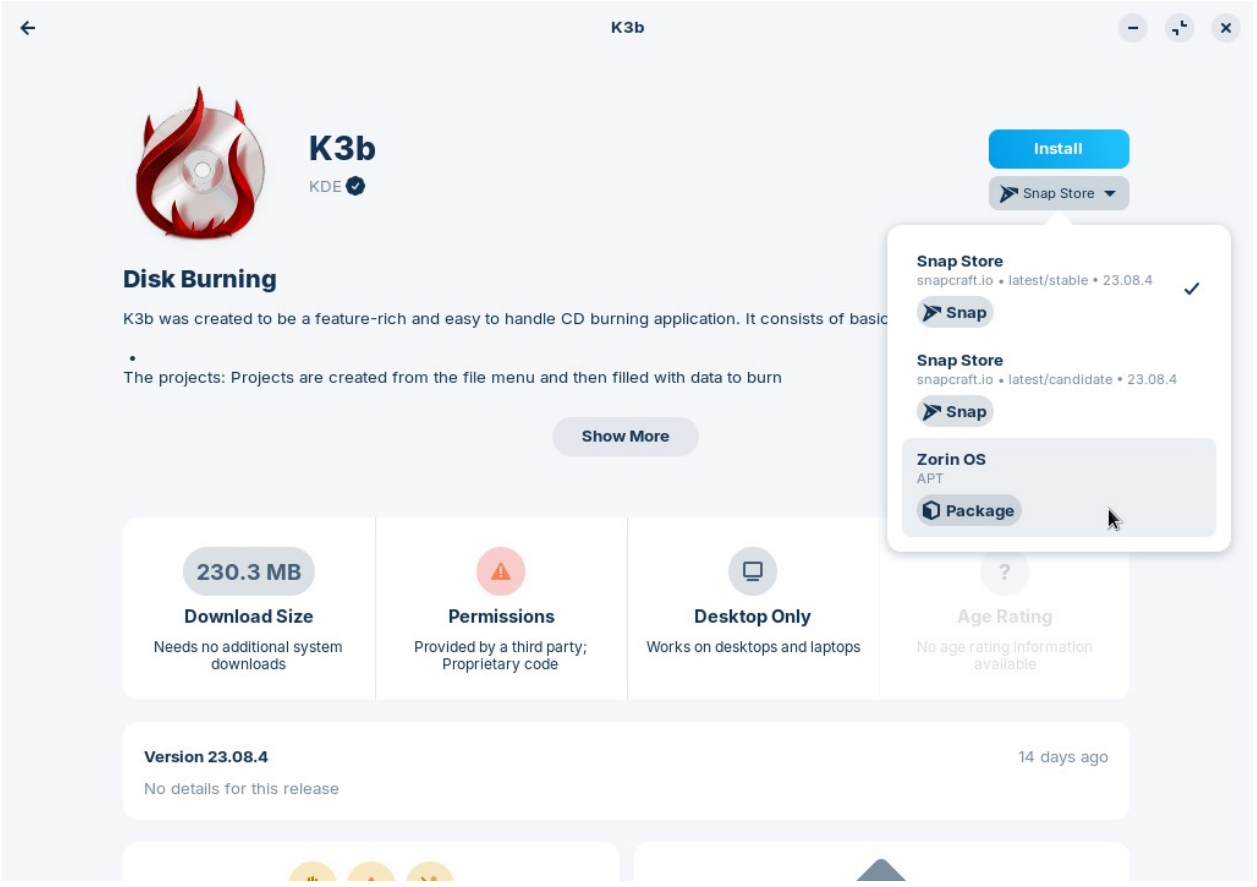

GnuCash
GnuCash
GnuCash Project
Install
Flathub
Flathub
dl.flathub.org
Flatpak
Zorin OS
APT
Package
*Sample.gnucash - Accounts - GnuCash
Manage your finances, accounts, and investments
GnuCash is a program for personal and small-business financial-accounting.

Resources:

Helpers:

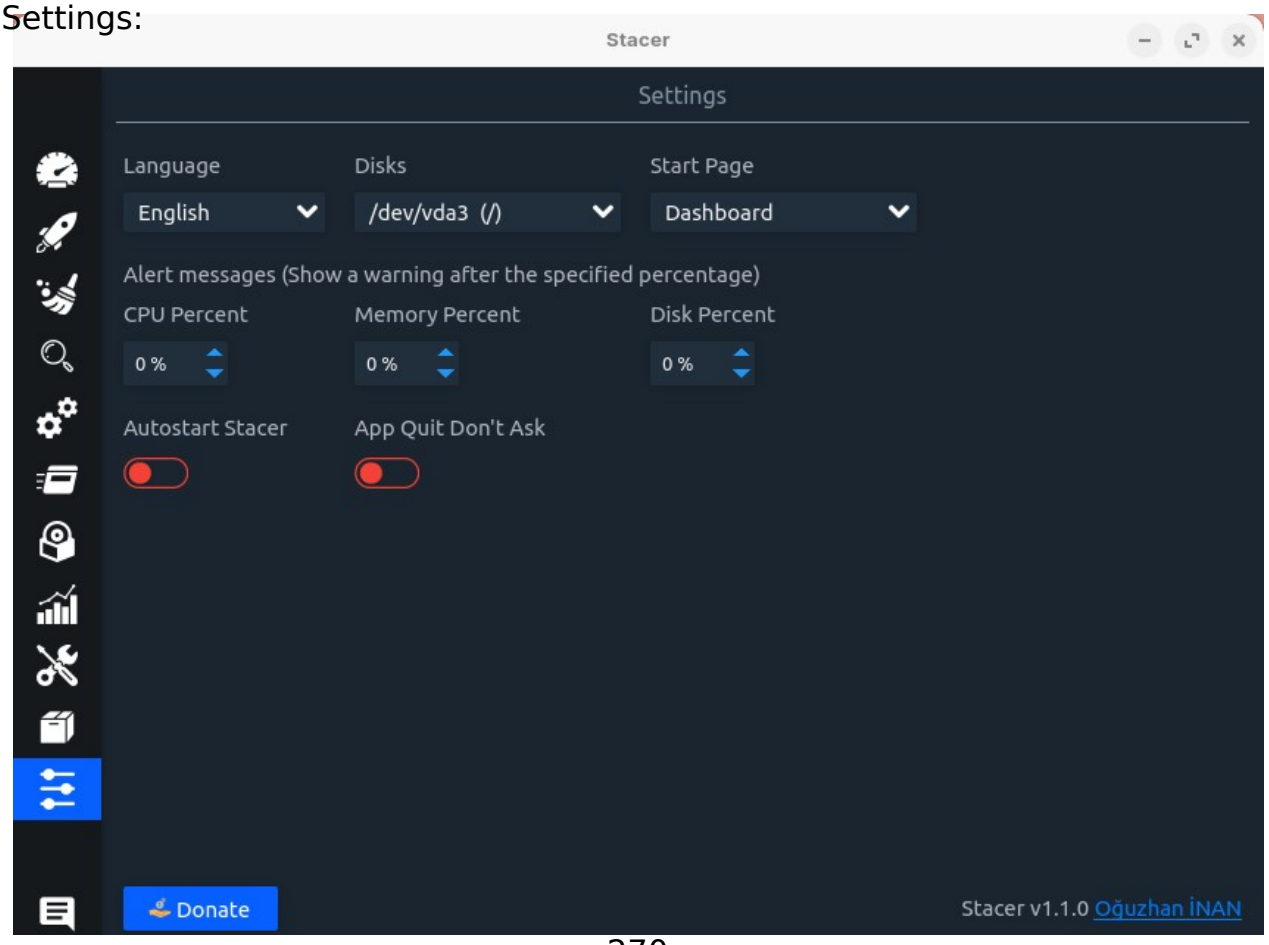


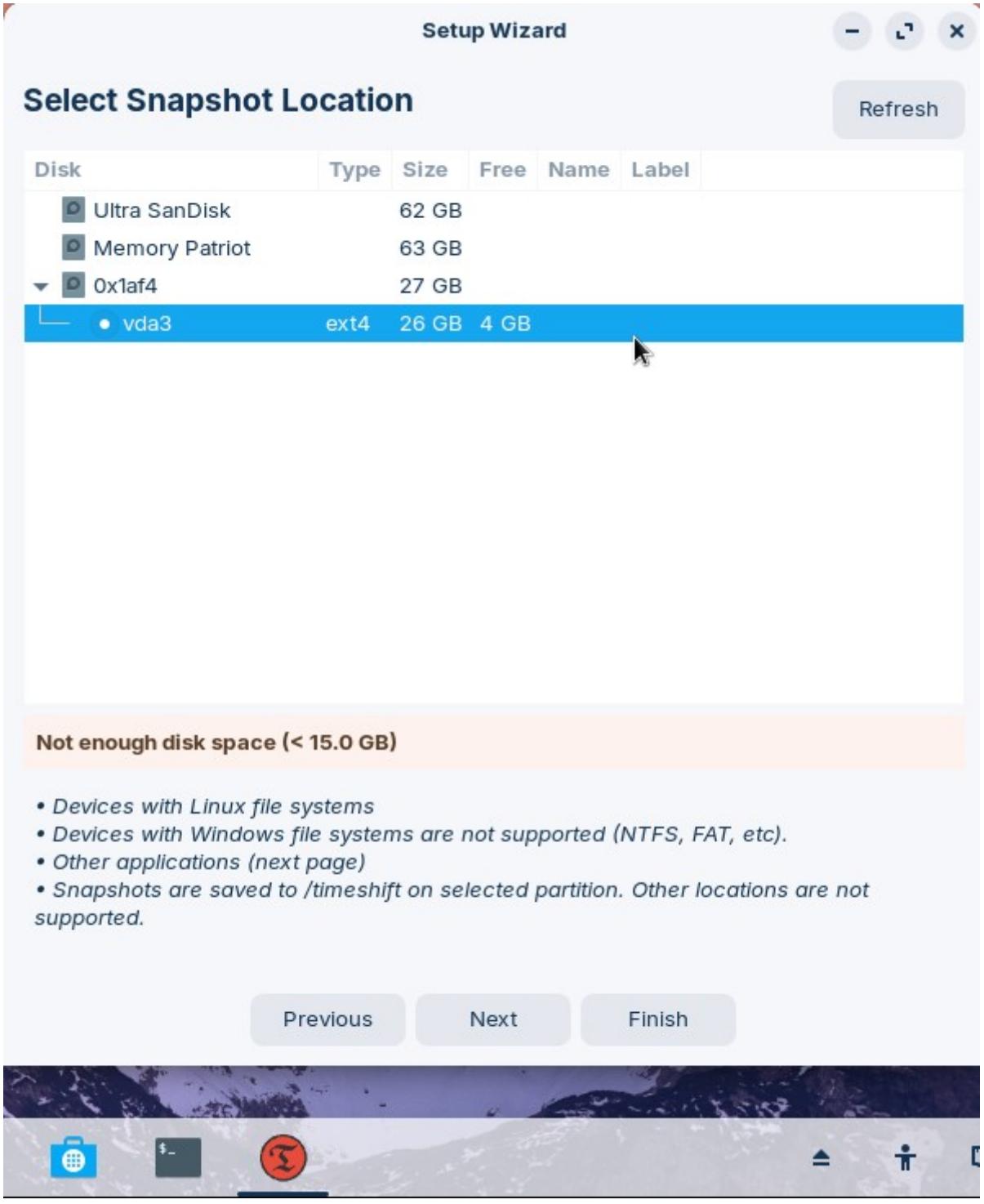



K3b
K3b
KDE
Install
Snap Store
Disk Burning
K3b was created to be a feature-rich and easy to handle CD burning application. It consists of basic
•
The projects: Projects are created from the file menu and then filled with data to burn
Show More
Snap Store
snapcraft.io • latest/stable • 23.08.4
Snap
Snap Store
snapcraft.io • latest/candidate • 23.08.4
Snap
Zorin OS
APT
Package
230.3 MB
Download Size
Needs no additional system downloads
Permissions
Provided by a third party; Proprietary code
Desktop Only
Works on desktops and laptops
Age Rating
No age rating information available
Version 23.08.4
14 days ago
No details for this release

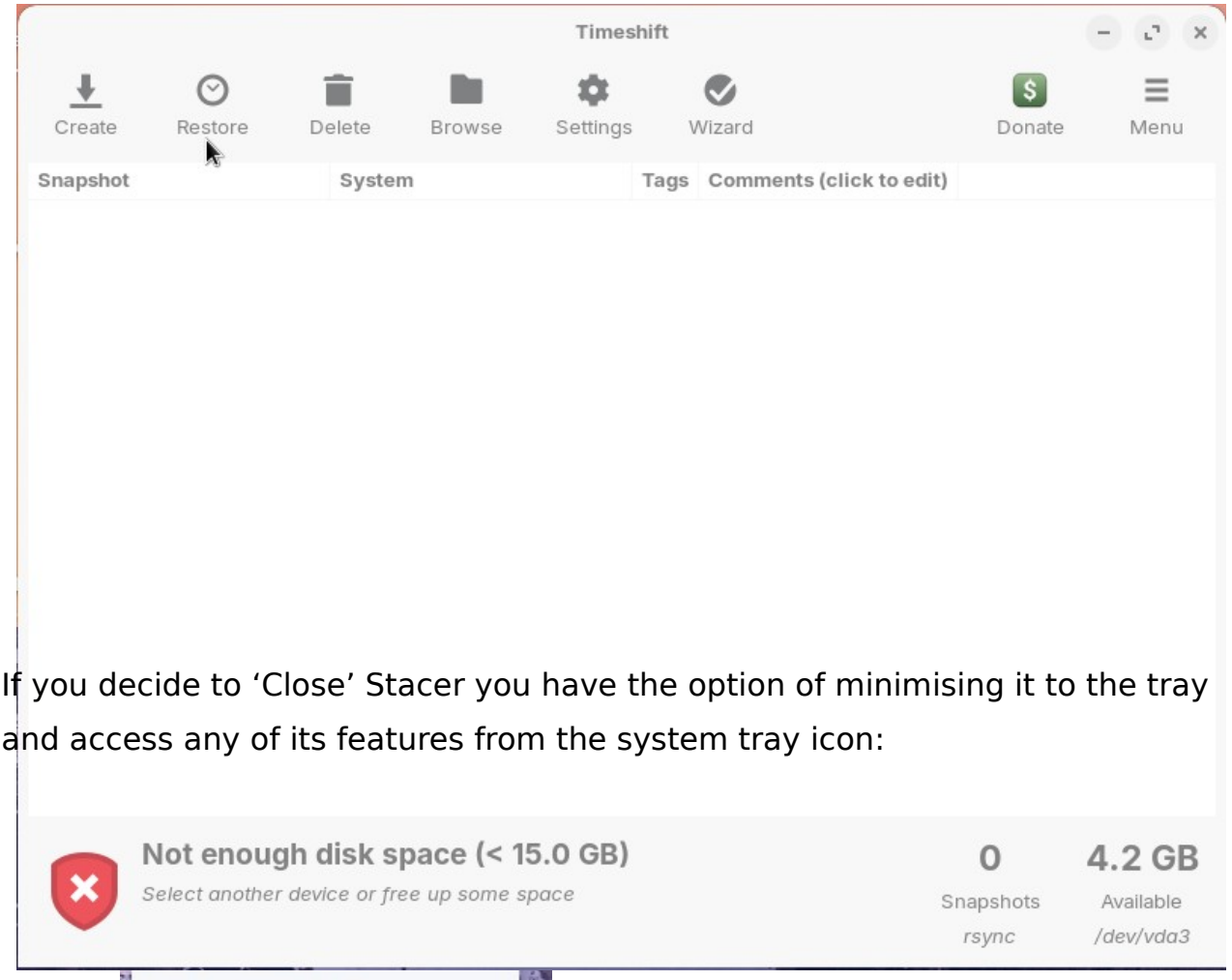
APT Repository Manager:

Settings:

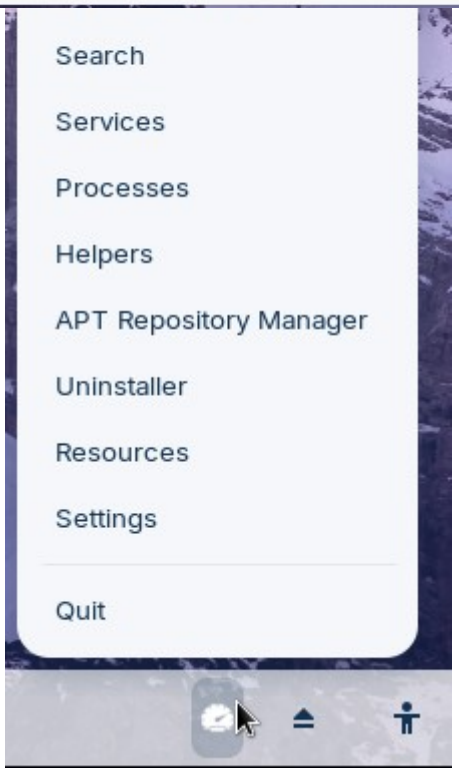



Setup Wizard
Select Snapshot Location
Refresh
Disk
Type
Size
Free
Name
Label
Ultra SanDisk
62 GB
Memory Patriot
63 GB
0x1af4
27 GB
vda3
ext4
26 GB
4 GB
Not enough disk space (< 15.0 GB)
• Devices with Linux file systems
• Devices with Windows file systems are not supported (NTFS, FAT, etc).
• Other applications (next page)
• Snapshots are saved to /timeshift on selected partition. Other locations are not supported.
Previous
Next
Finish

Feedback:



If you decide to ‘Close’ Stacer you have the option of minimising it to the tray and access any of its features from the system tray icon:



1 d. Alternative File Manager: Krusader (File Manager/Explorer):

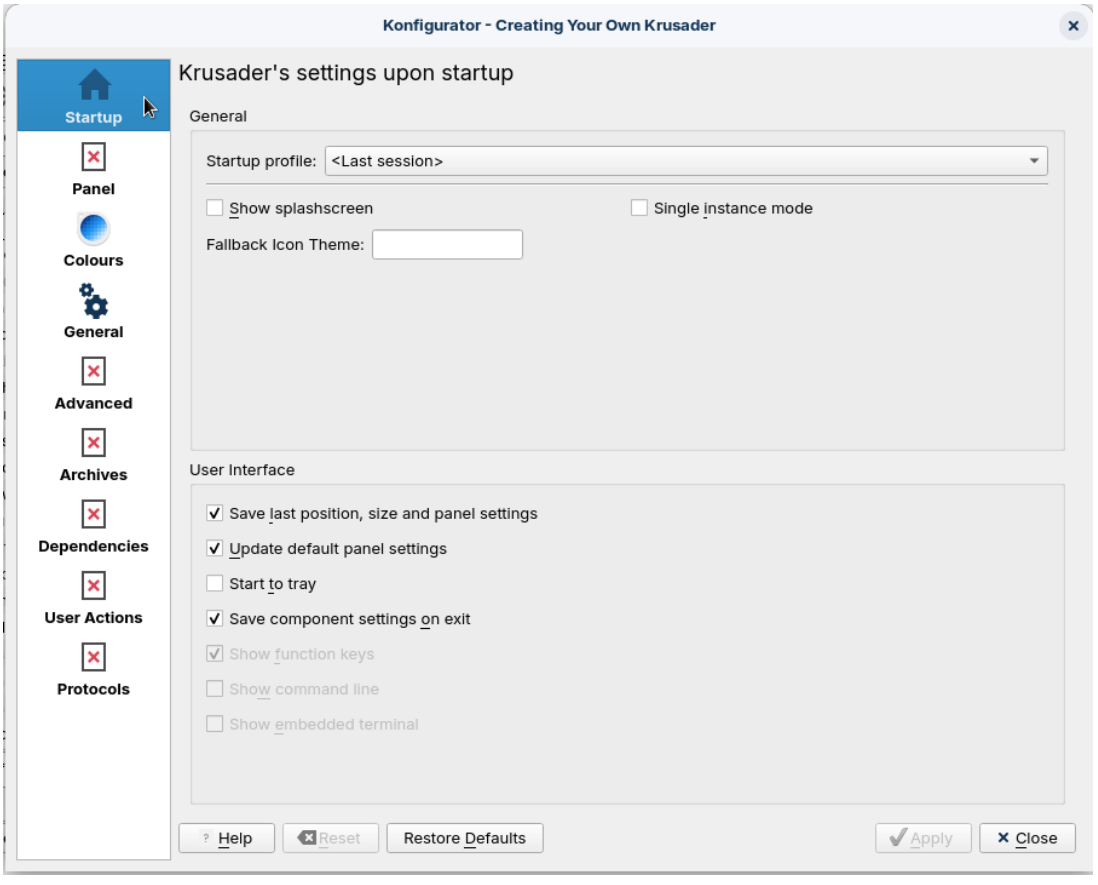
Available in ‘Software’.

/dev/sdb - GParted
GParted Edit View Device Partition Help
/dev/sdb (931.51 GiB)
/dev/sdb4
772.87 GiB
Partition Filesystem Mount Point Size Used Unused Flags
/dev/sdb1 fat32 95.37 GiB 30.28 MiB 95.34 GiB boot, esp
/dev/sdb2 ext4 / 47.68 GiB 11.42 GiB 36.26 GiB
/dev/sdb4 ext4 /home 772.87 GiB 85.04 GiB 687.83 GiB
/dev/sdb3 linux-swap 15.59 GiB 0.00 B 15.59 GiB

Krusader has changed quite a lot so after install you will get screens of advice should you need elements that require additional items/packages/settings. Unfortunately after removing and reinstalling I can no longer replicate the ‘warning/advisories’ - there will be two screens so make sure you inspect them carefully and make any adjustments. There are further tweaks available after installation – In respect of a needed text editor, because Krusader was aimed at the KDE (Kool) desktop it will need ‘Kate’ (Kool Text Editor) if Text Editing is required using Krusader. (You may wish to use this instead of the default **Files** which you should leave on the system – removing it [**Files**] also removes Rhythmbox and a host of other functions needed for the OS to work smoothly! Screenshot of general interface on next page - after installing Kate it works but be sure to choose the APT version of Kate as the first option in Software is

snap which baulked!:

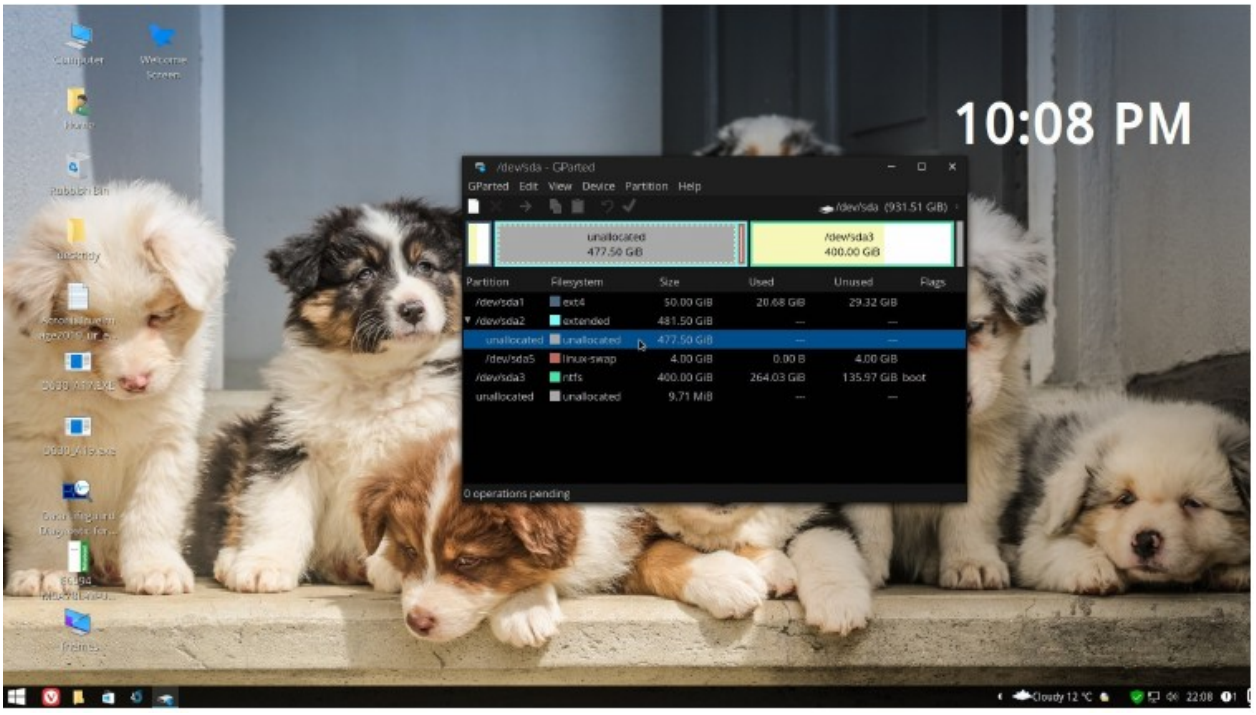
Configure crusader (from Settings on Menu bar): Configure startup of App.



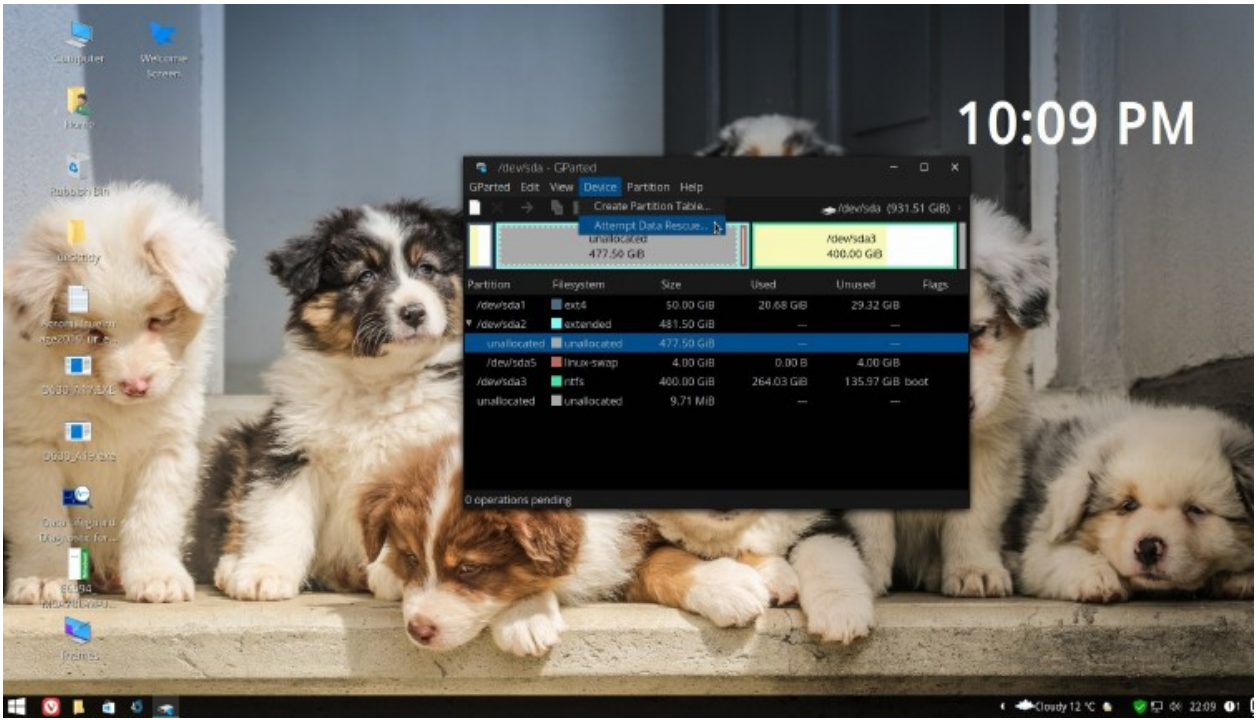
Panel - General Tab:

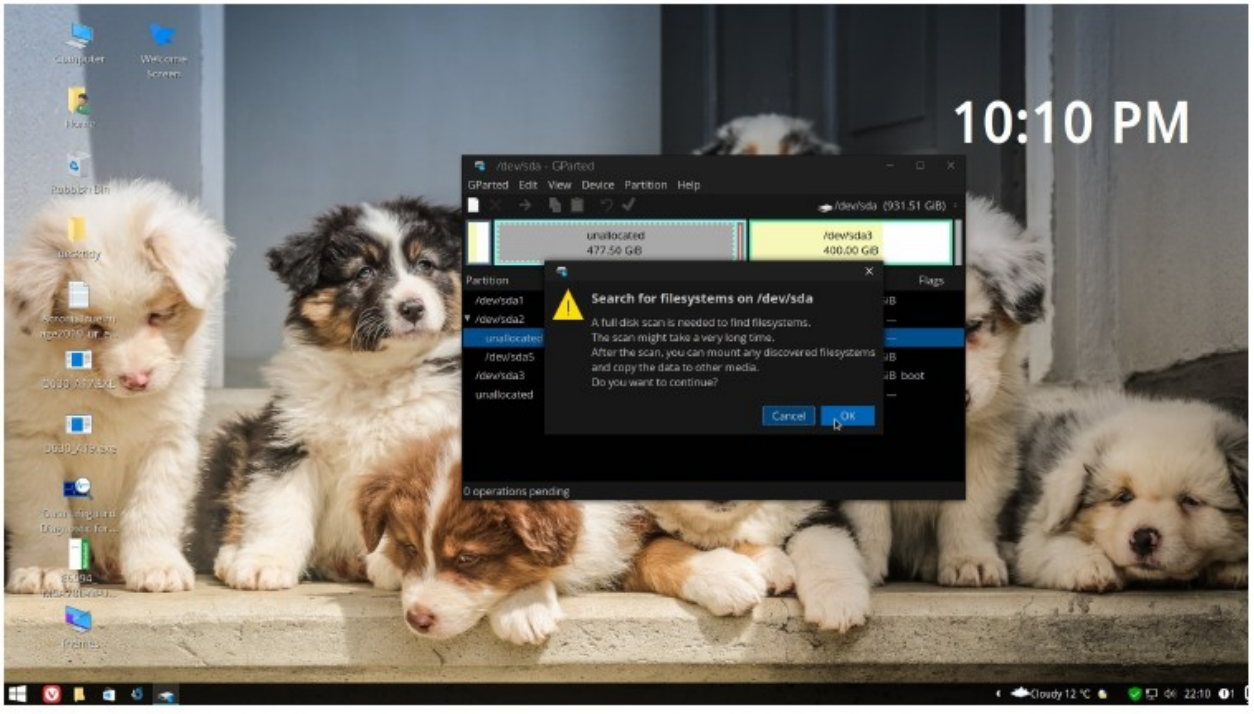
Panel - View Tab:

Panel - Buttons Tab:

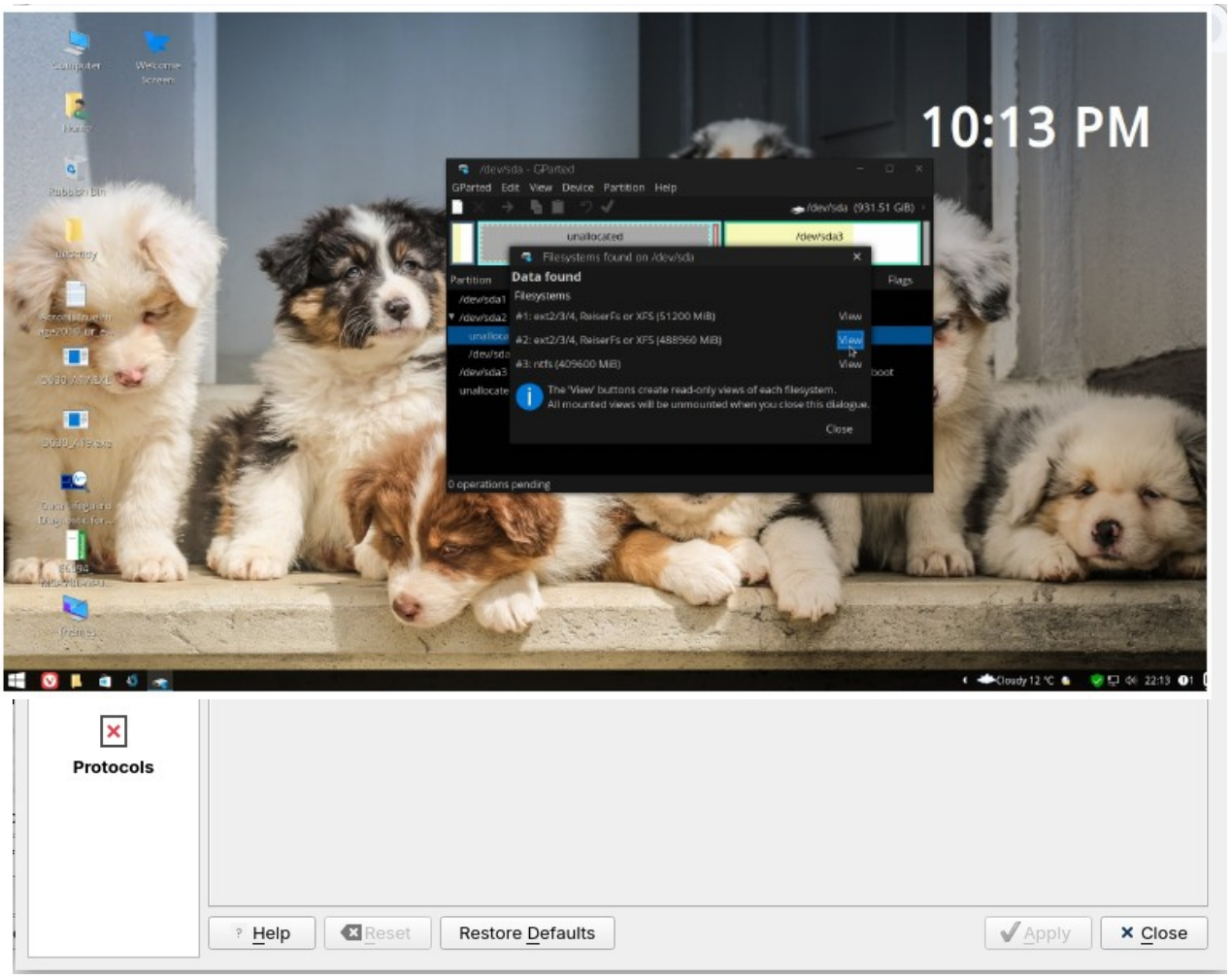

10:08 PM
/dev/sda - GParted
GParted Edit View Device Partition Help
/dev/sda (931.51 GiB)
unallocated
477.50 GiB
/dev/sda3
400.00 GiB
Partition Filesystem Size Used Unused Flags
/dev/sda1 ext4 50.00 GiB 20.68 GiB 29.32 GiB
/dev/sda2 extended 481.50 GiB
unallocated unallocated 477.50 GiB
/dev/sda5 linux-swap 4.00 GiB 0.00 B 4.00 GiB
/dev/sda3 ntfs 400.00 GiB 264.03 GiB 135.97 GiB boot
unallocated unallocated 9.71 MiB
0 operations pending

Panel - Selection Mode tab:

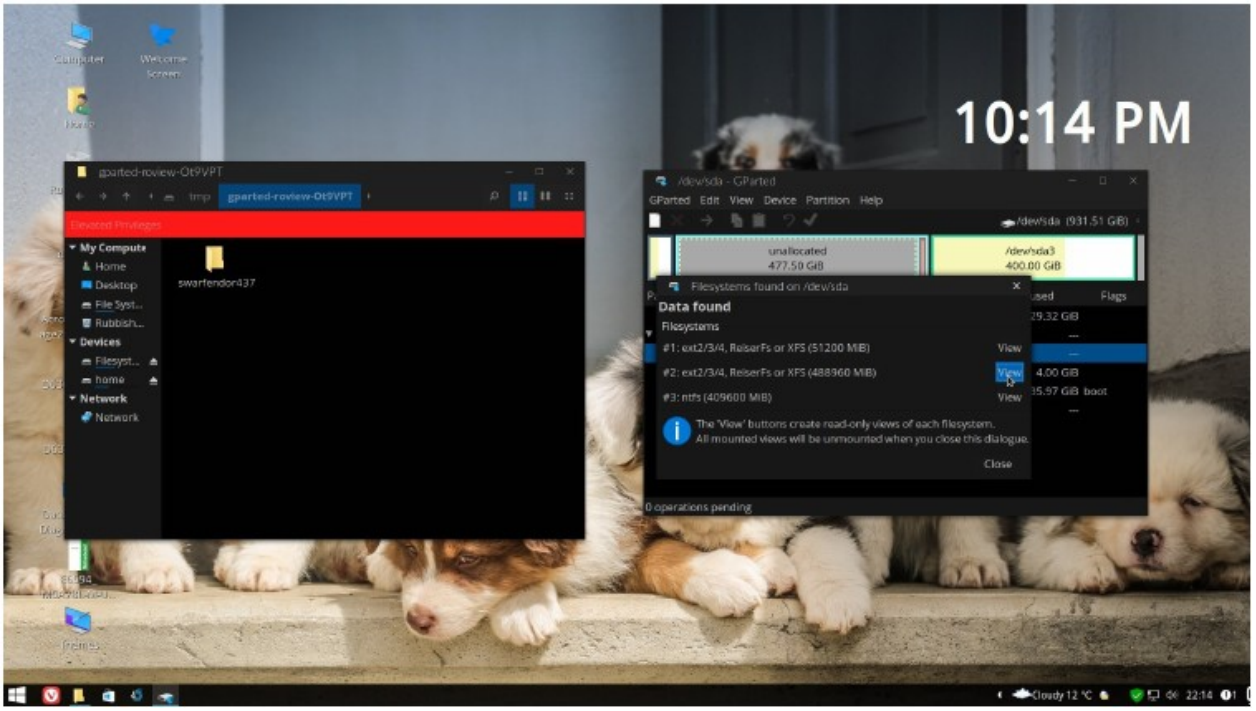

10:09 PM
/dev/sda - GParted
GParted Edit View Device Partition Help
Create Partition Table...
Attempt Data Rescue...
/dev/sda (931.51 GiB)
unallocated
477.50 GiB
/dev/sda3
400.00 GiB
Partition Filesystem Size Used Unused Flags
/dev/sda1 ext4 50.00 GiB 20.68 GiB 29.32 GiB
/dev/sda2 extended 481.50 GiB
unallocated unallocated 477.50 GiB
/dev/sda5 linux-swap 4.00 GiB 0.00 B 4.00 GiB
/dev/sda3 ntfs 400.00 GiB 264.03 GiB 135.97 GiB boot
unallocated unallocated 9.71 MiB
0 operations pending


10:10 PM
/dev/sda - GParted
GParted Edit View Device Partition Help
/dev/sda (931.51 GiB)
unallocated
477.50 GiB
/dev/sda3
400.00 GiB
Search for filesystems on /dev/sda
A full disk scan is needed to find filesystems.
The scan might take a very long time.
After the scan, you can mount any discovered filesystems and copy the data to other media.
Do you want to continue?
Cancel
OK
0 operations pending

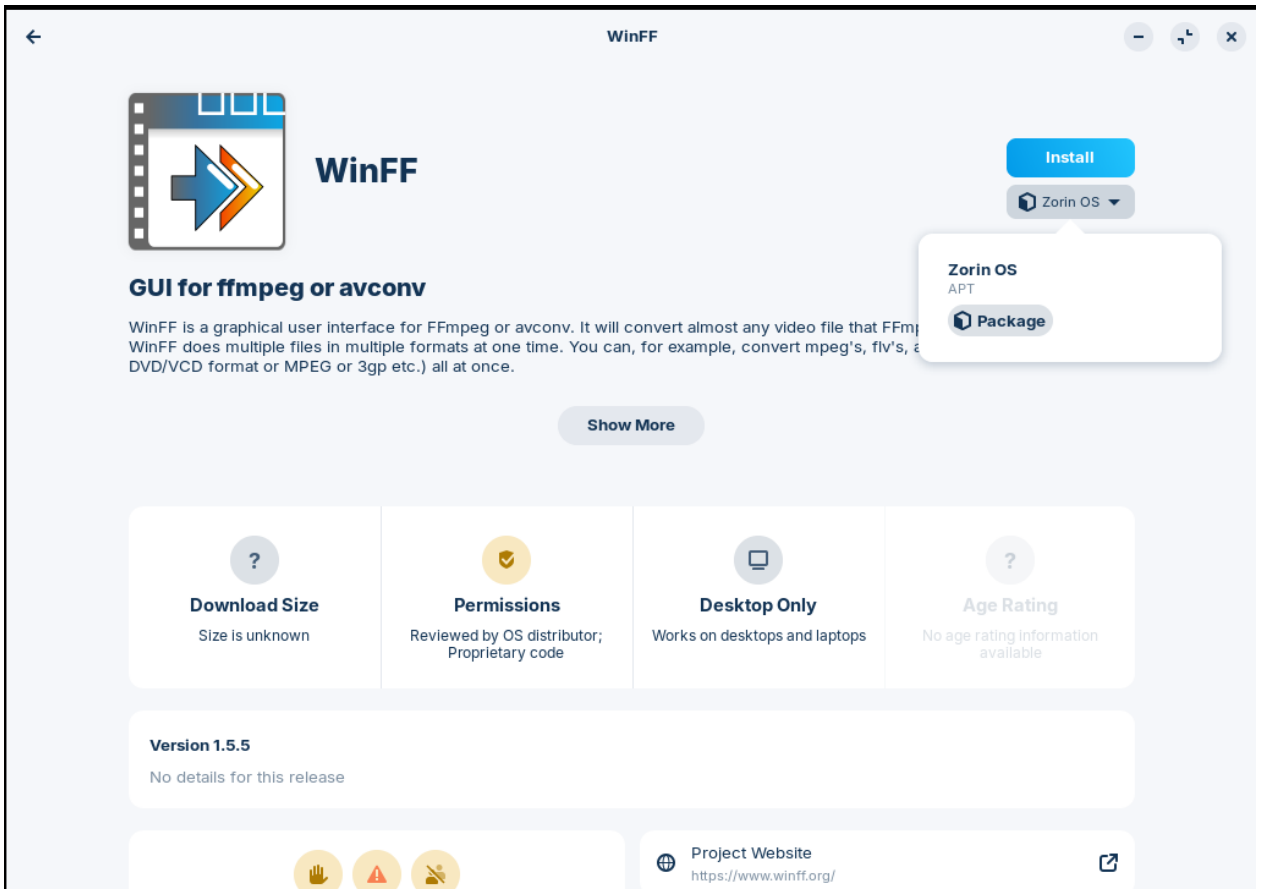
Panel Media Menu tab:



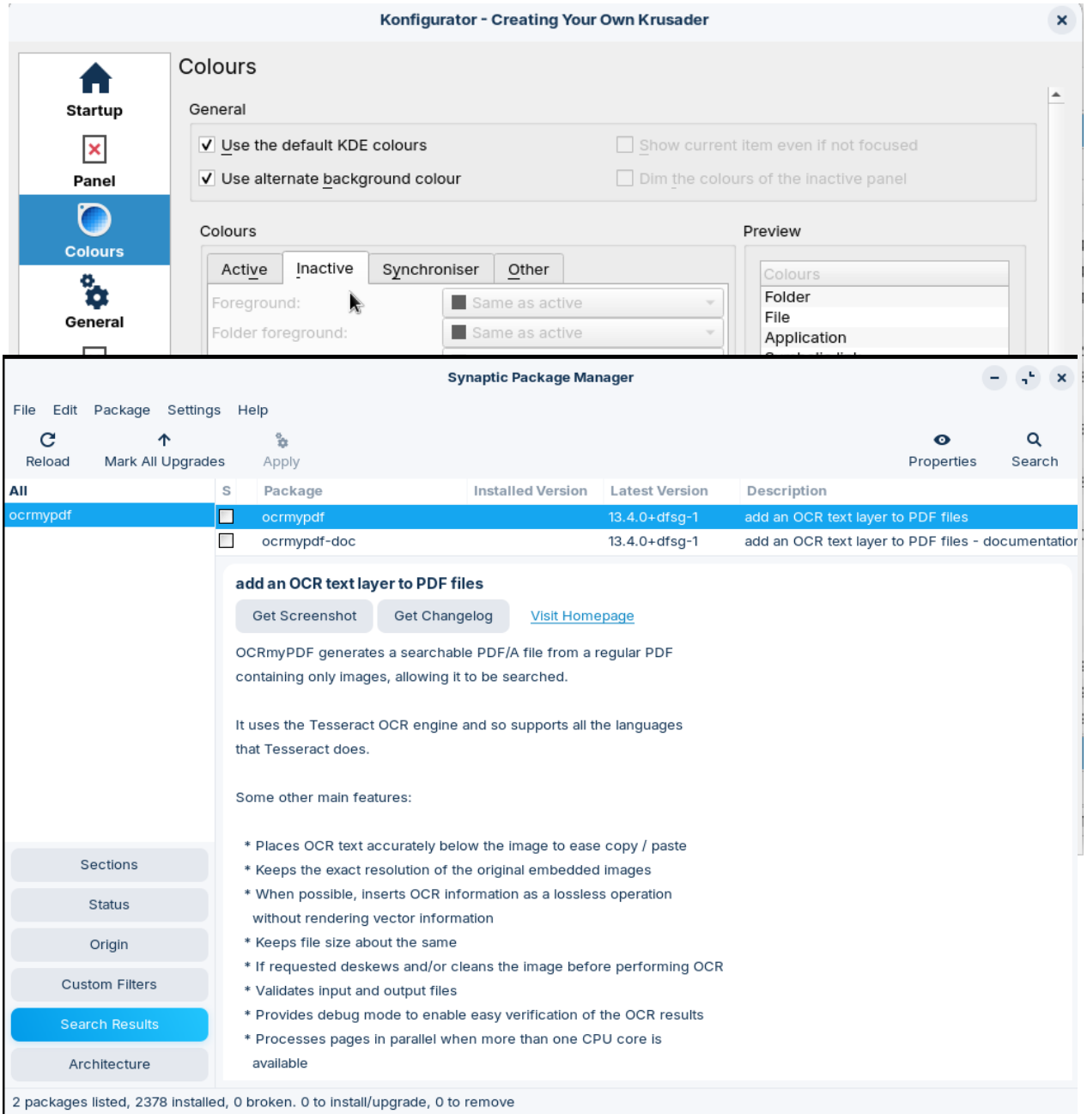
Panel - Layout tab:



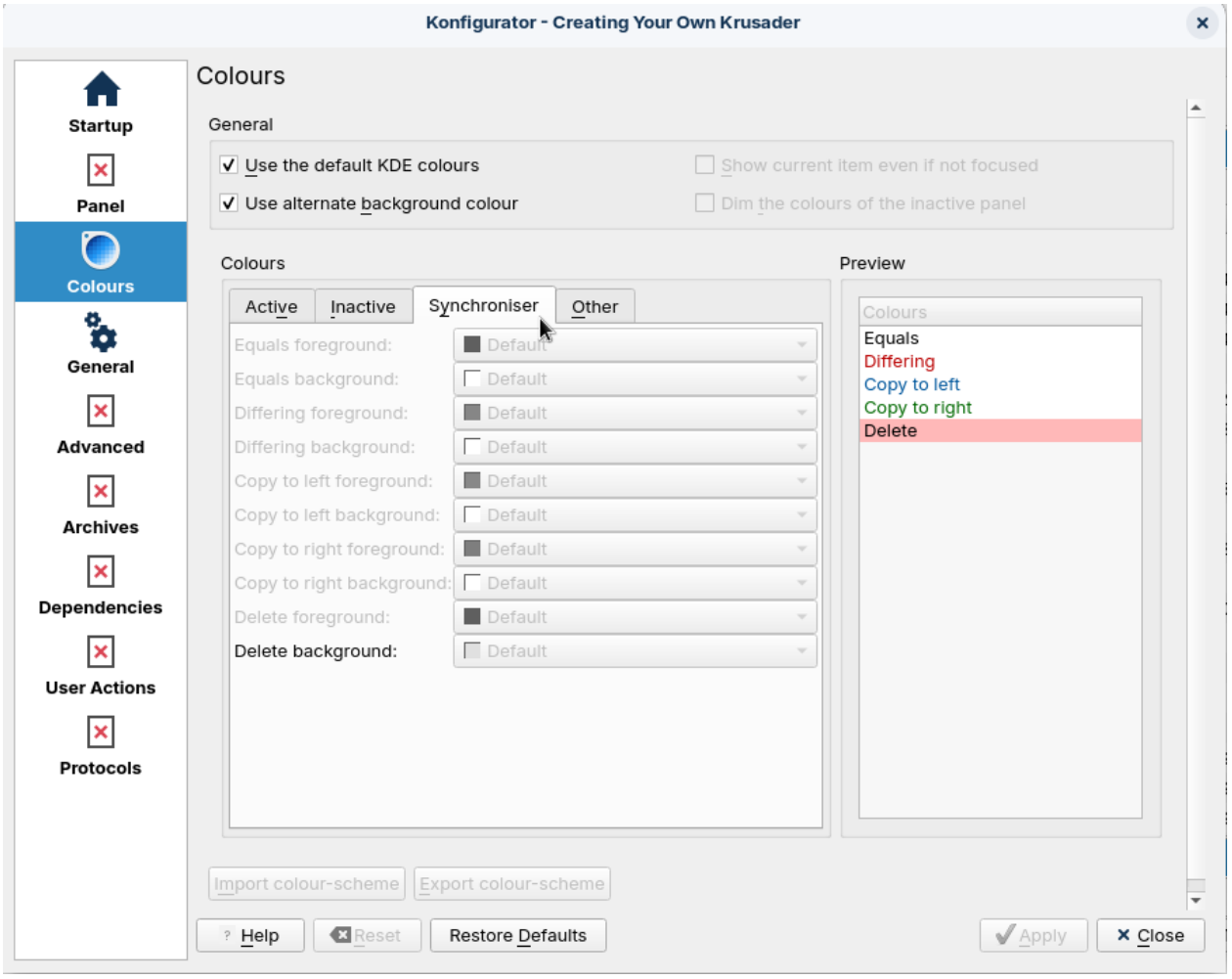
Colours - Active tab


WinFF
WinFF
Install
Zorin OS
Zorin OS
APT
Package
GUI for ffmpeg or avconv
WinFF is a graphical user interface for FFmpeg or avconv. It will convert almost any video file that FFmp
WinFF does multiple files in multiple formats at one time. You can, for example, convert mpeg's, flv's, a
DVD/VCD format or MPEG or 3gp etc.) all at once.
Show More
Download Size
Size is unknown
Permissions
Reviewed by OS distributor; Proprietary code
Desktop Only
Works on desktops and laptops
Age Rating
No age rating information available
Version 1.5.5
No details for this release
Project Website
https://www.winff.org/

Colours - Inactive tab

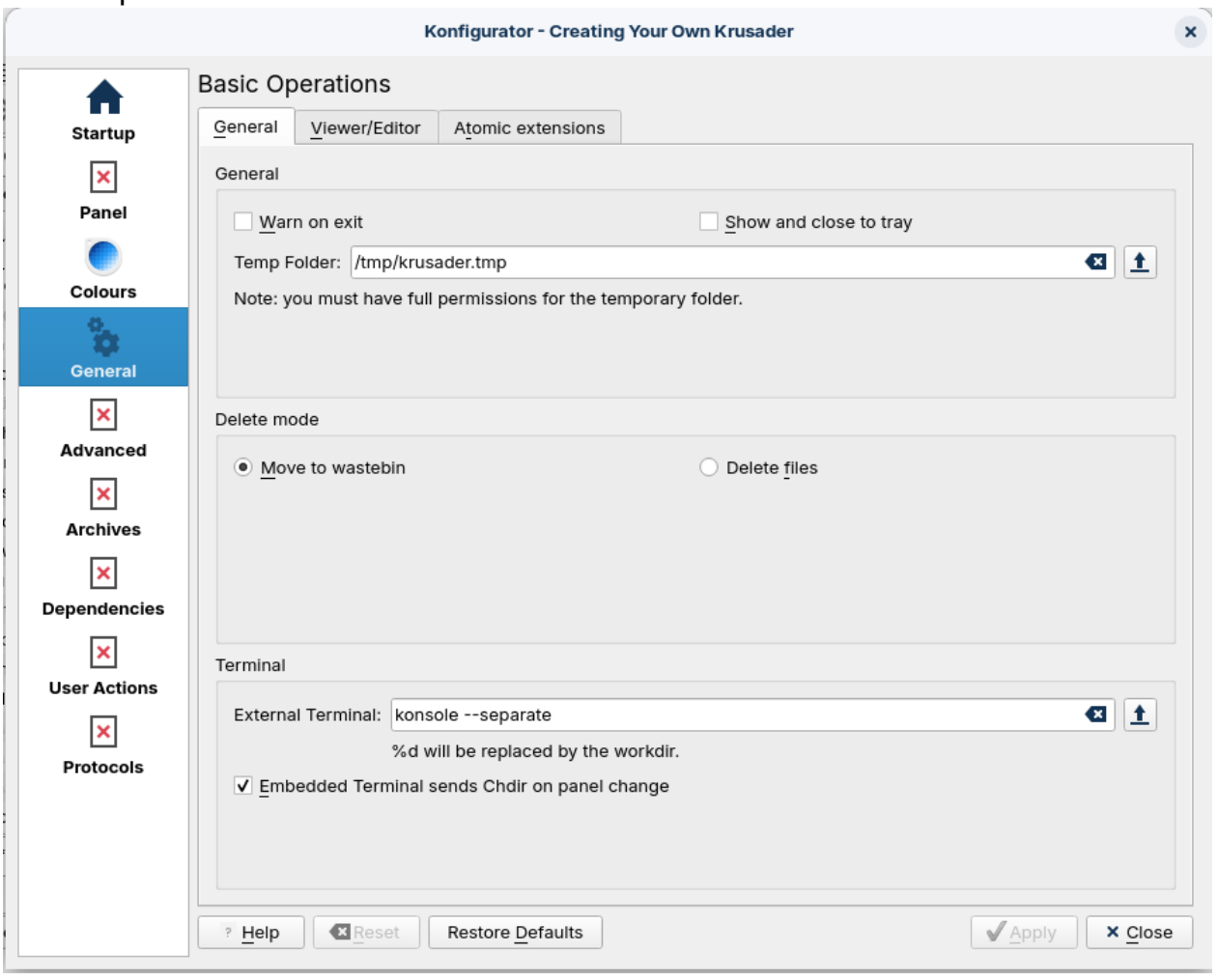


Colours - Synchroniser tab

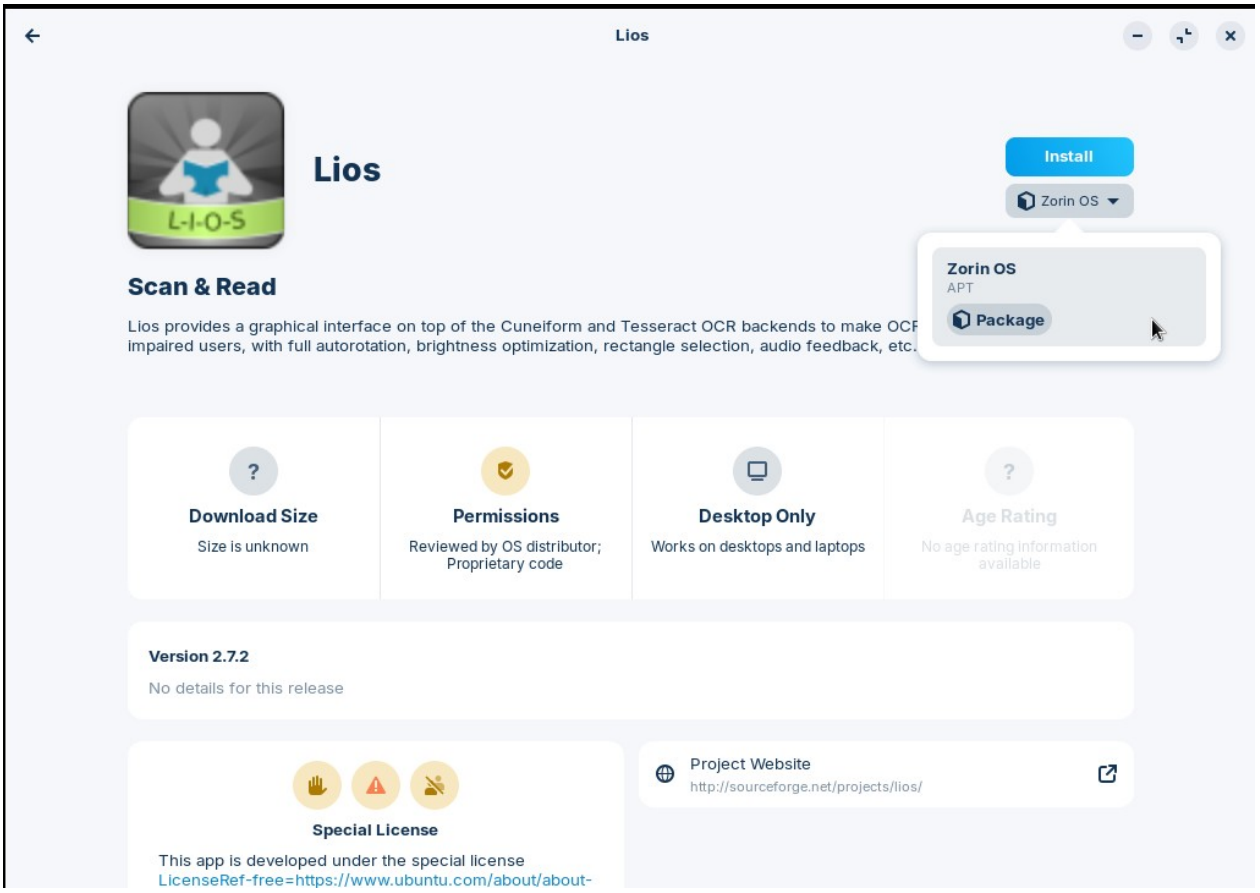


Colours - Other tab

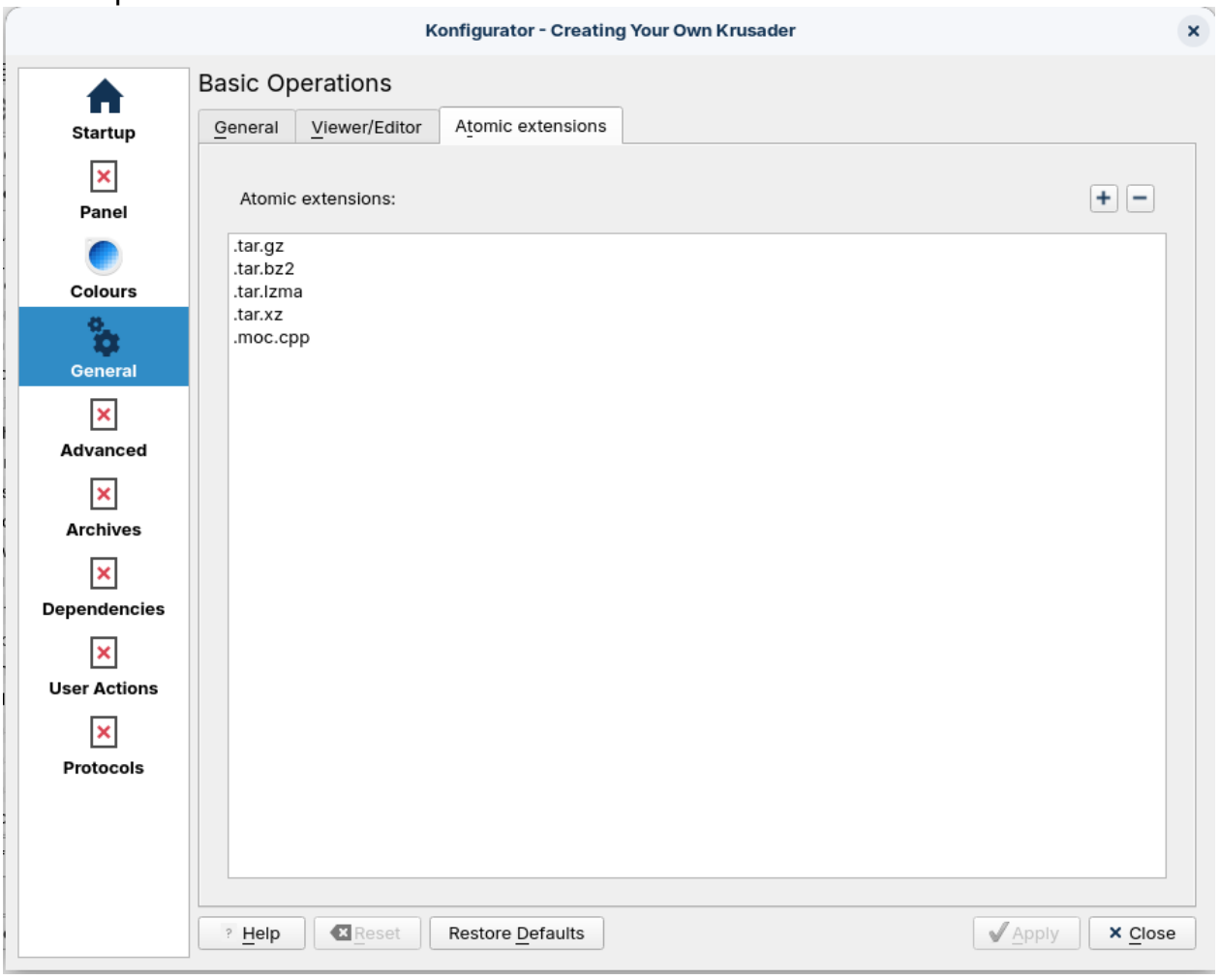
Basic Operations - General tab:



Basic Operations - Viewer/Editor tab:



Basic Operations - Atomic extensions tab:

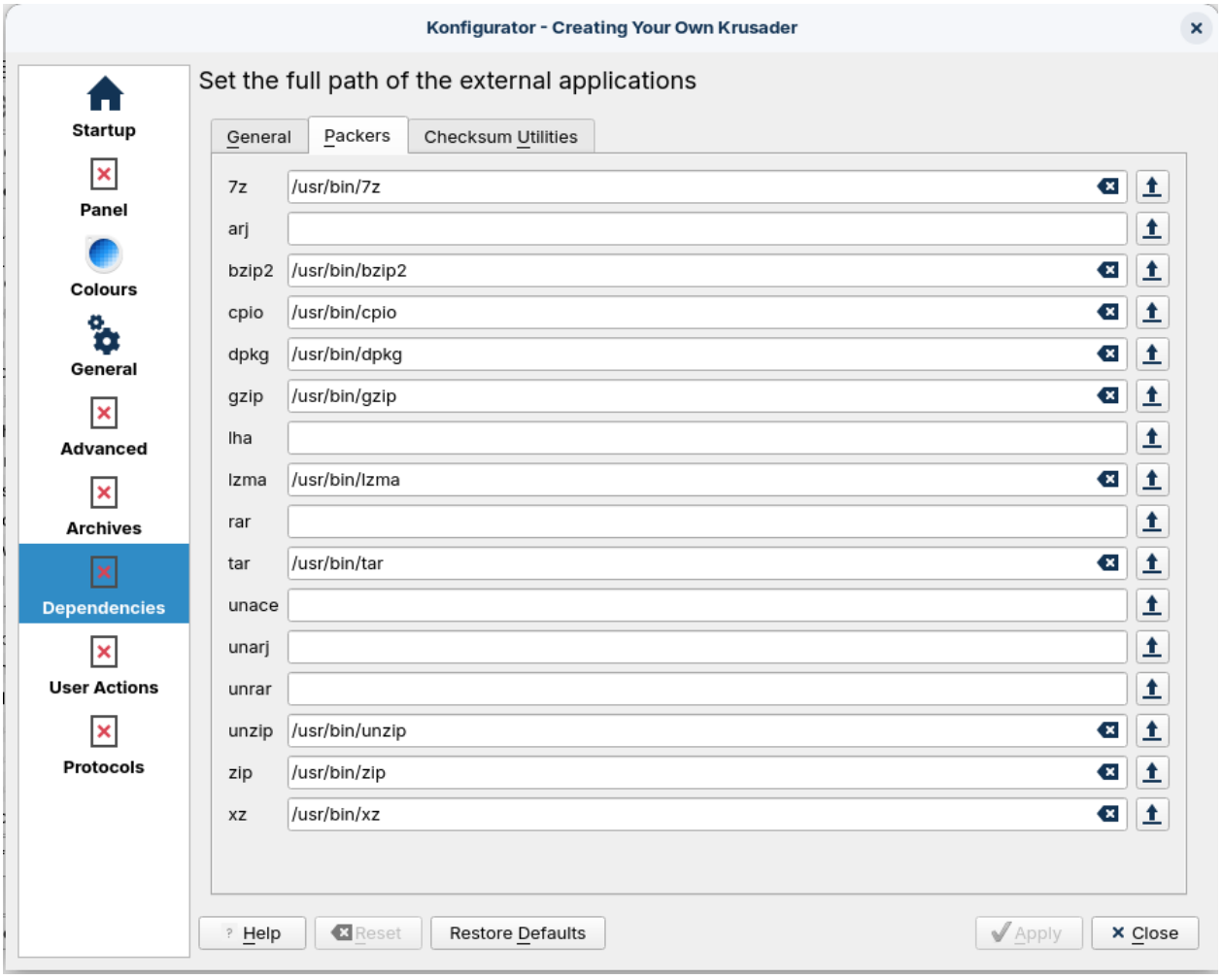


Advanced:

Archives:

Dependencies - General tab:

Dependencies - Packers tab:



Dependencies - Checksum Utilities tab:

User Actions:

Protocols:

e. MultiSystem:

MultiSystem: Probably the best USB MultiBoot System there is – yet another fantastic piece of French Software! Get the original package from here:
https://zoringroup.com/forum/viewtopic.php?f=4&t=8933&hilit=+Multisystem.tar.gz#p43425
and update after installing!
(Update - doesn’t update now as based on Ubuntu16.04 but generally still works!)

Tutorial video here:
https://vimeo.com/104187694?share=copy

f. Calibre – Ebook reader/viewer/converter:

Available in ‘Software’.

g. Graphics Packages/3d Modelling:

Blender: available from the ‘Software’ channel.

darktable: available from the ‘Software’ channel.

Dia: For a whole host of Diagram/flowchart/circuits etc with plugins available for additional ‘sheets’ from the website, such as chemsistry. Available from the ‘Software’ channel.

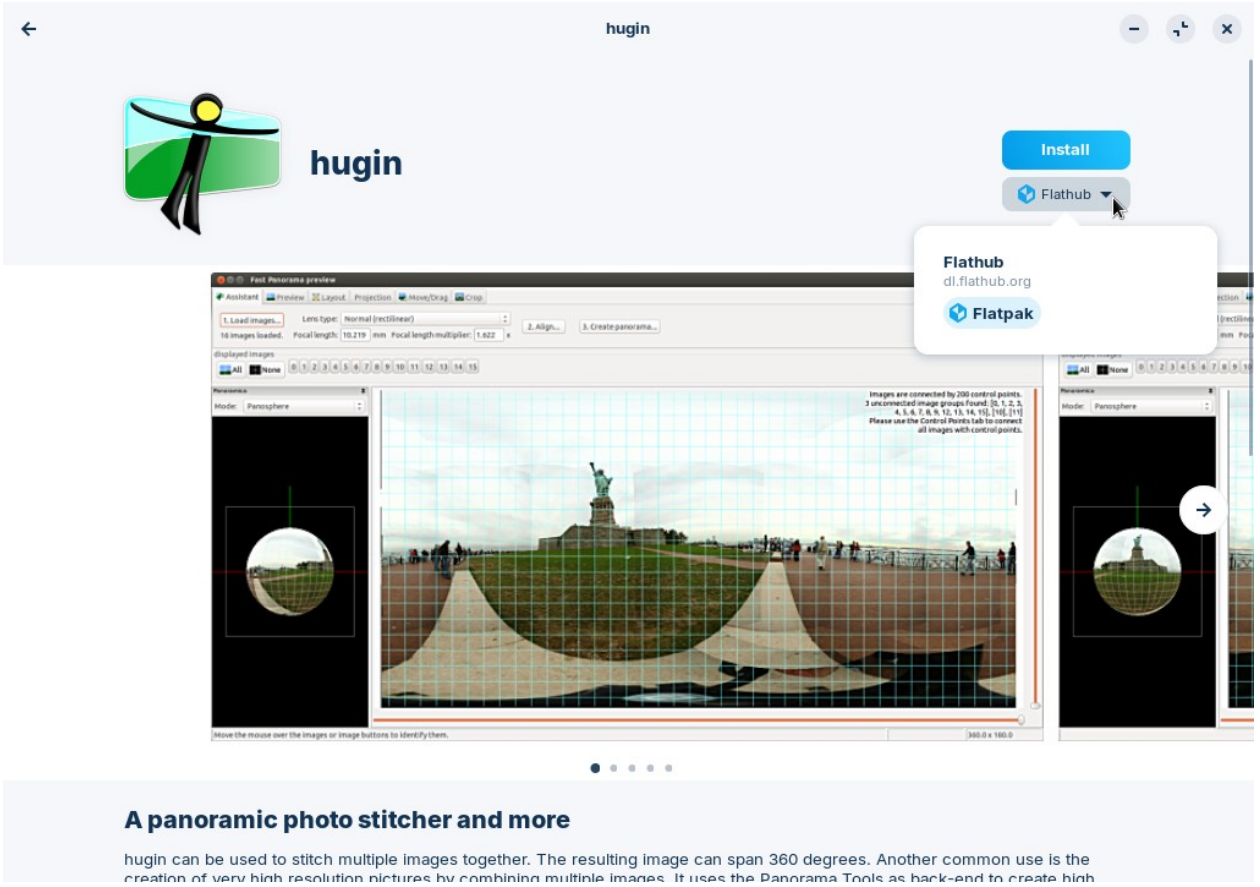
Inkscape: available from the ‘Software’ channel (always choose APT!).

My Paint: get it from https://mypaint.org/downloads/

This is a really cool paint package as it has a ‘mirror’ function so that everything you draw on one side of the canvas is replicated exactly on the opposing side which is what I used to create the above wallpaper.

LibreCAD: Available from the ‘Software’ channel.

Hugin Panorama Stitcher: Available from the ‘Software’ Channel. (Only available as a flatpak application).



Stop animation:

qstopmotion: available via Software.

Stopmotion: Available from Software channel:

h. DeskTopPublishing – Scribus:

Available from the Software channel.

i. Video Editing:

KDEnlive: available in the Software channel.

On a personal note I use KDEnlive to Edit and render all my desktop screencasts to my Vimeo account.
Tutorial video by Nixie Pixel here: https://youtu.be/1eHEAfNFJ0k?feature=shared

k. Screencast software.

Vokoscreen-ng: Screencast application in Software channel.

This is my preferred application for capturing the desktop for my Vimeo videos.

l. Internet packages:

Deluge (for Torrents): Available in the Software channel.

IceCat (formerly Iceweasel): for Secure internet browsing:

Available from: https://www.gnu.org/software/gnuzilla/

m. CD Emulation.

GCDEmu https://sourceforge.net/projects/cdemu/files/?source=navbar

This has proven very useful for creating and storing virtual CD Drives for Windows games as an example. Here is what you need to do:

1. Go to this page: https://www.unixmen.com/cdemu-virtual-cddvd-drive-linux/ After you have followed the instructions to install, it places it in the startup applications folder but does not check mark it so do that before proceeding.
2. Next find your favourite game, pop it in the Optical Drive and 'Open' it to view all files.
3. Go to your Menu, then Wine then 'Browse C Drive'.
4. Create a new folder in C and name it exactly the same as the game CD.
5. In the game CD window select all files and copy to the newly created folder in the fake C drive.
6. right-click the 'setup.exe' file, select properties, then the permissions tab and check mark the last item of allowing it to run as a program – this should now install the game to your fake C: Drive.
7. Some games won't run without the CD present – this is where gCDEmu comes into play. Open Brasero and from the list of optoins, select 'Copy disc'.
8. Now copy to 'image file' from the drop-down selection instead of original optical drive – this places a .toc and .toc.bin file in your /home folder.
9. Launch gCDEmu from the panel and select device #00 (Empty)/
10. Load the file with the suffix .toc.bin and you should see the same icon appear on your desktop as you would if you were placing it in the optical drive.
11. Go to your wine menu and select the correct launcher for the game to run.

n. Accountancy Application

There can only be one decent Accountancy Application and that is **GnuCash** – find it in the Software Channel or Synaptic Package Manager.

o. Virtual Machine Software

At one time I would have recommended Virtual Box, but not anymore. **virt-manager** stands head and shoulders above Virtual Box any day. Get it from the Software channel.

p. K3b

This is an alternative to Brasero, the default Zorin CD/DVD Burning Software. I prefer to use it when creating Creative Commons Licenced music I have collected for it is better at duplicating with Track Titles than Brasero – it also has a built in md5 checksum utility to verify the validity of downloaded .iso’s. Get it from the Software channel.

q. System Restore utility: Timeshift

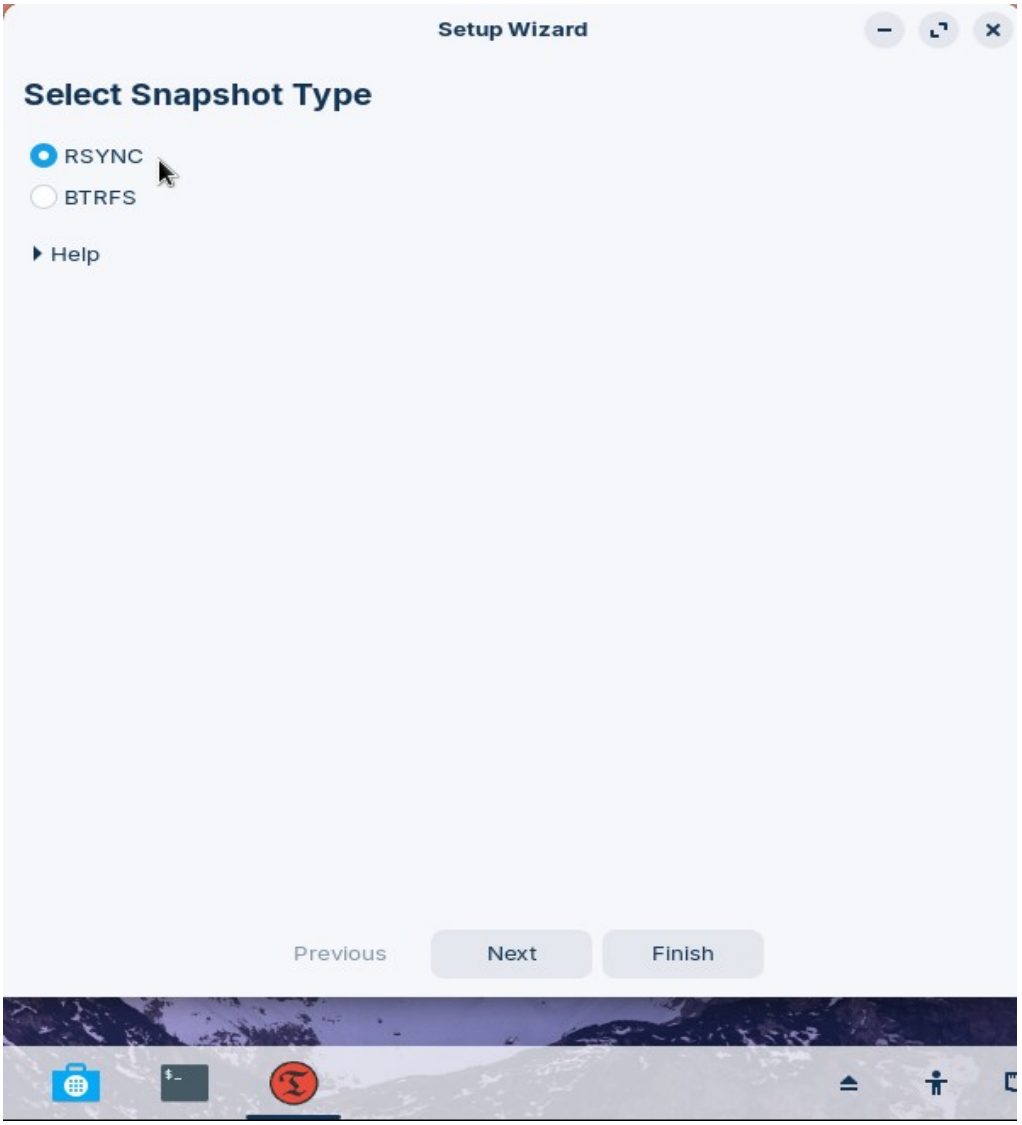
Full how-to here:

https://itsfoss.com/backup-restore-linux-timeshift/

If you ever run into difficulties at login time and you need to start the terminal in Advanced | Safe Recovery mode, the terminal commands to restore an image for Timeshift is:

timeshift –restore

Then follow the prompts that appear. If saving snapshots to an external device make sure the drive is formatted to the same filesystem as the one chosen for the Zorin installation.



Troubleshooting tips:

29 1. Installation:

On newer machines from about 5 years ago, M$ introduced the Secure Boot System. Over time Fedora and Ubuntu released 'shims' to solve this issue and fell into disrepute with the Free Software Foundation. History lesson aside, this is how it should be done for Zorin 15.
First a handy explanatory article:
https://askubuntu.com/questions/659588/what-is-the-efi-esp-partition
Here is mine gone wrong! (By that my choice of 100 Mb appears to have turned into 100 Gb!:

So, your drive, assuming no Windows and no other hard drives would be probably 'sda#' - because of me playing around with other distributions (I have a choice of 5 at boot time!) and various reinstalls of Zorin it has become 'sdb#'. So when you get to the something else part of install and GParted, (Gnome Partition editor) comes on screen, if you have any existing partitions, (extened ones will need to be 'unmounted' before you can delete anything inside it), delete all of them unless you are intending to dual-boot with Windows. This tutorial is purely made for the purpose of installing

Zorin/GNU/Linux of your choice with EFI support.

1. Create a partition of 512 Mb. Format this partition to FAT32 and mark it as boot/efi using the 'flags' manager.
2. Next create your 'root' file system, make this 80 Gb in size. Format to Ext4 and mark it as '/',
3. Next up at the end of the free space after '/' partition create your swap area-make it double the size of your installed RAM.
4. Finally, the space left in between should be formatted to Ext4 and marked as '/home'
Next proceed with the installation, remembering to ensure that you have told the installer to install the bootloader to 'sda' and then click on continue.

1 2. The Login Loop – You try to login but after you enter your assword you are back to where you started!

[UPDATE 20.01.2020 - Have found another potential cause to this problem - corrupt files. I booted a recent install of Zorin Education 15.1 on works Notebook and had login loop. Started in Advanced | Safe mode and ran FSCK - it could not run automatically, stated it would need to run manually.
So at the prompt you type:

[code]fsck /dev/sda1[/code]

This is assuming there is only one hard drive in the machine - you would of course put the device label according to which drive Zorin is on.
fsck runs and reports file errors in inodes and asks if you want to repair - well yes, you do obviously! Enter 'y' for any other prompts - it will tell you when you
have finished. On completion of the task you will be returned to the safe mode options menu - don't select 'RESUME' - turn off the machine and power up - problem solved! :D]

The 'de facto' solution...
Is usually is to boot into advanced | recovery mode then from the recovery memory launch 'root' (terminal) then enter:

[code]mount -n -o remount,rw /[/code] then press Enter.

[code]passwd your_username[/code] then enter new password, shutdown and reboot.
If this does not work, and if you have Timeshift installed then boot from live DVD/memory stick and point to where the snapshots are held and see if that works. If it doesn't try one of the following 3 options (acknowledgements to https://www.linuxslaves.com/2016/05/3-ways-fix-ubuntu-gets-stuck-login-loop.html?)

"Method #1 Fix Ubuntu login screen loop

The first is quite simple. The file is located under the current user's home directory. All you will have to do is change the owner of .Xauthority file.

Step 1 - At login time, use Ctrl+Alt+F3 to switch and access the command line interface mode.

Step 2 - Login into the shell using your username and your password. In this case, username will be your username you set when you installed Ubuntu.

Step 3 - Once logged in, now run ls -lah to view list directory contents. Look for the line that ends with .Xauthority

[code]# ls -lah
-rw------- 1 root root 53 Nov 29 10:19 .Xauthority
[/code]

Step 4 - You need to do chown. Type and run the following command :

[code] ['sudo' if not currently 'root'] chown
username:username.Xauthority[/code]

Now reboot and see if you can log in - if not:

Step 5 - If it does not work, try renaming.

[code]mv .Xauthority .Xauthority.bak[/code]

Now reboot and try re-logging in.

Method #2 How to Fix Ubuntu login screen loop

Step 1 - Run ls -ld /tmp. Check for the first 10 letters in the left: they should read exactly so: drwxrwxrwt

[code]# ls -ld /tmp
drwxrwxrwt 15 root root 4096 Nov 30 04:17 /tmp[/code]

Step 2 - You may need to changing permission. Run the command below :

[code]sudo chmod a+wt /tmp[/code]

Method #3 How to Fix Ubuntu login screen loop
If even both did not work for you, try the last one! Please make sure you are connected to active internet. Check this out!

Step 1 - Uninstall and reinstall Ubuntu lightdm. Run the following :

[code]sudo apt-get purge lightdm
sudo apt-get install lightdm
dpkg-reconfigure lightdm[/code]

Step 2 - Once reconfigured, now reboot."

[I have modified the instructions as it is not clear at which point you become 'root' using the 'sudo' command - if the last element of a terminal prompt is '#' then you are in the terminal as 'root' with elevated privileges. If the last element of the command prompt is '$' you are a standard user, and not 'root'. I have written this tutorial experiencing just this and used Method 1 which solved the issue for me in FerenOS]

2 3. How to recover a ‘/home’ partition marked as unallocated.

OK, new motherboard, old drive, /home (of Zorin Lite 12.4) marked / identified as 'unallocated' space in GParted! Scratched head and remembered reading somewhere that Gparted comes with Test Disk (this might be the live version, not sure) so I began looking at the options. Before going any further you may well need a live version of GParted if you don't have another drive with another GNU/Linux installed on it. The scenario I am sharing is a drive with Feren OS which has GParted installed, but I discovered when first attempting to check for filesystems on the drive affected there was a package missing, 'gpart' - you may need to install this. I did it through the terminal:

[code]sudo apt-get install gpart[/code]

Now read on:

1.

Here you can see the drive that contains:

sda1 - '/' root partition

sda2 - 'unallocated' (actually '/home' - so potentially a partition table error/something else/failing drive.)

sda 3 - ntfs data share partition - I also backed this up - just in case - using the data recovery through GParted.

Next we go to the 'Device' heading in the menu bar of GParted and select 'Attempt Data Rescue ...' shown below. (Next page)

2.

You will receive this notification:
3.

You are advised it may take some time but for me was very quick because of the new rig (Ryzen 7 with 16 Gb RAM).

4.

In this scenario, you cannot view the 'root' filesystem (#1) as it is protected file system being 'root' and we need to recover the '/home' partition, which is #2 ...

5.

I then simply dragged the 'swarfendor437' folder onto my external drive so I am now safe in the knowledge I can reinstall Zorin (hopefully!) and to play extra safe, filesystem #3 was the NTFS system partition for Data Sharing I created a tutorial video for before installing any GNU/Linux so you can access data both from GNU/Linux and your Windows machines (or smartphone using Obmin installed in Zorin).

[Footnote: having looked at the images supplied I spotted an instant error - my NTFS data share partition is marked as Bootable - changed the Zorin '/' partition to be marked as bootable and on booting get the Windows 'Missing Operating System' - this is what comes when you don't follow your own advice (I could cry like Alice in Wonderland - but won't! :lol:) of disconnecting drives you are not working on!]

1 Addendum - more useful software.

30 Another useful utility, a video and audio file converter, WinFF.

1 OCR and pdf Software

Linux applications for modifying/extracting text from pdfs.
This information is prepared on the understanding that the applications have been installed/exist in the distribution being used.

1. ocrmypdf. (Available via Synaptic Package Manager)

This is a command line utility (there is no front end) and provided user is confident of navigating inside a terminal there should be no issues. One thing to bear in mind when cd .. ing to a different directory. To open a Terminal, either (depending on the DE - Desktop Environment) Ctrl+ Alt+ T launches the terminal. Alternatively Alt+ F2 brings up quick search/launch bar - just enter

Terminal (Gnome DE), Xterm (xfce DE), Konsole (KDE/Plasma DE). Once in the terminal you will be in the base part of your /home directory of you (user). So first off we need to change directory (cd .. command, just like windows) and move to ‘Documents’ - be aware that Linux terminal navigation is case sensitive so ‘cd .. documents’ would get you nowhere.
If a folder has a lengthy name e.g., Staff Mandarin Class we would have to, once in documents, cd .. \Staff \Mandarin \Class. If we know the name of the pdf e.g., Mandarin.pdf that is contains ‘images’ of text we then enter:
ocrmypdf Mandarin.pdf output_pdf.
After a few seconds of whirring, it will report what it has done including any concerns about potential orientation. It reports usually that it has transformed into a type 2A pdf as expected. I have found this to be invaluable recently whilst searching for a potential solution for another VI forum member, I stumbled upon it, and glad that I did!

2. Okular. (Available in the Software channel).

This was designed for the KDE/Plasma DE (as an aside KDE/Plasma DE can be applied to Windows but it will not mean you can take advantage of the inbuilt screen reading capability of Okular that is found in the Linux version. The Windows version is in the Windows Store or the nightly stable build can be acquired from here:

https://binary-factory.kde.org/job/Okular_Nightly_win64/lastStableBuild/

To launch Okular, use Alt+ F2 to get the launch bar and enter the applicaton name - on entering Ok... it should autofill to read Okular as there are not many apps starting with Ok!, then press enter to launch Okular.

To open a file (Ctrl+ O). As selection tools tend to be visually

orientated for someon reliant on a screenreader, I would export as a ‘text’ file - this is the 13th option under File menu (Alt+ F) then scroll down until you hear ‘Export as’ announced. then right arrow to select ‘plain text’. What this actually does is create its own version of a pdf which does not show up under Open files - you need to use the drop down option in the interface box to open it up again in Okular by choosing ‘All Files’.
Once opened, to choose the text selection tool by entering the key combination of Ctrl+ 4. Next use Ctrl+ A to select the entire document, then Ctrl+ C to copy to Clipboard, open up your preferred Text Processor, then Ctrl+ V. Be aware that when a text document pdf is created it does not move any images across - it purely extracts the text from the document.

Okular handbook:
https://docs.kde.org/stable5/en/okular/okular/index.html

3. L.I.O.S (Linux Intelligent OCR Solution). (Available in Software.)

This is another application useful for extracting text. It does a reasonable job, but fancy Capital T’s can usually endup having a single speech mark to the left of it but it can be removed in the Edit window. Now I am not too sure how good it works with Commands for non-sighted use. What is slightly annoying is it accumulates page numbers at the top of each image, even from ones worked on before so the image window of the application needs to be entered to delete the first line. That aside it is a pleasant application to work with from a sighted modifiers perspective as unlike Abbyy FineReader and other OCR applications for Windows, font styles are not embedded, it is just pure text so, so long as the Text Processor you are working with is set to the correct Font and Font size you only need to go to Home | Font and select ‘Set as Default’ for current document only, and then when pasting from LIOS it

transforms into the correct size and typeface required.
From the Help file:

Linux-Intelligent-OCR-Solution

*** What is Lios ***
Lios is a free and open source software for converting print in to text using either scanner or a camera, It can also produce text out of scanned images from other sources such as Pdf, Image, Folder containing Images or screenshot. Program is given total accessibility for visually impaired. Lios is written in python3, and we release it under GPL-3 license. There are great many possibilities for this program, Feedback is the key to it.

Report your feedback through : https://groups.google.com/forum/#!forum/lios

*** Features of Lios ***
1. Import images from Scanner, PDFs, Folder, or Webcam,
2. Take and Recognize Screenshot,
3. Recognize Selected Areas(Rectangle selection),
4. Support two OCR Engines (Cuneiform,Tesseract),
5. 24 Language support (Given at the end), 30 more languages can be installed in Tesseract,
6. Full Auto Rotation for any Language(If aspell installed for the language, Eg : "sudo apt-get install aspell-hi" for Hindi,
7. Side by side view of image and output
8. Advanced Scanner Brightness optimizer,
9. Text Reader for low vision with Highlighting, With user selected

Color, Font, and Background Color,

10. Audio converter(espeak),

11. Spell-checker(aspell),

12. Export as pdf (text/images),

13. Dictionary Support for English(Artha)

14. Options for save, load and reset settings,

15. Other options - Find, Find-and-Replace, Go-To-Page, Go-To-Line, Append file, Punch File, Selection of starting page number, page numbering mode and number of pages to scan, Selection of Scan area, brightness, resolution and time between repeated scanning, Output Insert position, image rotation and zoom options, etc

*** Opening and Closing ***

For opening Lios launch Application menu > Graphics > Lios. Or one can search in dash board and start Lios from there.

Open with image items or PDF

One can select required images to be imported from the file browser and open the context menu using right click or application key and select open with Lios

Closing

Select Quit from File menu or press Ctrl+Q

*** Importing images from various sources ***

Importing image
At first choose the import-image from the file menu of Lios. This will cause a file chooser dialogue to appear. One can select a particular image or multiple images files. The images will appear on image list of Lios.

Importing images from PDF
At first select import-PDF item from file menu. A file chooser dialogue will appear, here you can select the PDF file to be extracted.

Importing all images in a folder
At first choose the import-folder from the file menu of Lios. This will cause a file chooser dialogue to appear. One can select the folder containing images files. The images will appear on image list of Lios.

Importing image from scanner
Before scanning make sure that scan menu is available and select the scanner from the Lios main interface if multiple scanners are connected. You should press Update-Scanner-List when a scanner is connected or removed.

The pages and their brightness may be different. So it is important to select apt resolution, brightness and scan area while scanning book. One can change these settings from scanning page of Lios preferences. Increasing or decreasing resolution can be done by clicking on '+ - 'button or pressing up and down arrow from the

resolution spin button. (Default 300)
increasing or decreasing brightness can also be done in the same way. However It's better to use the brightness optimizer to set the exact brightness value for a particular book. (Default 50)

The scan area can be selected using the scan-area combobox. It can be quarter, half or three quarter. (Default - Full)
One can make scan using scan-image(F8) button from the scan menu
Import image from scanner repeatedly
One can set the number of pages to be scanned repeatedly from scanning page of preferences also the time between the two scanning can be changed. One can start scanning repeatedly using scan-repeatedly(Ctrl+F8) item from scan menu. If you want to stop repeated scanning using stop-all-process(Ctrl+F4) item in the scan menu.

Take Screenshot
One can take screenshot and recognize that using this features. There are two modes the first one is capture entire screen and the second one is capture by selecting an area. Both of this options are placed in scan menu. The second option is more preferred. This feature can be used for recognizing text from videos.

Capture image using Webcam
One can start capturing by selecting Scan-Using-Webcam from scan menu. Then adjust the webcam and click on take button to capture the image. After capturing enough images close the window and select image from icon view on left side of lios and process it.

*** Manipulation of imported Images ***

Image manipulation options are available in Image Menu of Lios.

Invert List

This is used to change the order of images

Reposition of image items

one can click and drag image to any position among other images in the list.

Rotate selected Images

One can rotate bunch of images that are not in exact rotation.

Delete selected Images

One can delete all images or selected images from the list.

Save Images

Used to save all images or selected images to a folder.

Save images as PDF

One can save all images as pdf or save selected images as pdf.

OCR images without rotating

Before running ocr on images we can set OCR engine, language and insert position.

These options are in recognition page of Lios preferences. The selection of engine will affect the supported languages combobox.

One can decide the place in which 'output text' is added. It can be

at the starting position end position or wherever the cursor blinks.

After setting this, one can ocr images without rotation using ocr-selected-images-without-rotating item from the ocr menu. Or selecting the images from the image list and using the same option from the properties menu(Right click)

OCR images with rotation

The mode rotation can be selected from the recognition page of Lios preferences. The options available are Full automatic, Partial automatic and Manual.

Full automatic – The Lios will automatically select the apt rotation. The detection may take several seconds. Partial automatic- In partial automatic mode first scanned orientation is the model for the rest. Manual – In this you can give any orientation you like for each and every image, The rotation should be set in the recognition page of Lios preferences.

OCR Rectangle selections

One can select the region of interest from an image by drawing rectangles in the image using mouse. After selecting the regions one can OCR the items using Recognize-Selected-Areas Button shown left side of image view. For each entry in the list there will be starting X,Y, width and height. The overlap won't be allowed.

*** Scan and OCR directly ***

One can do scan and ocr directly using scan-and-ocr(F9) button from scan menu. This will first make a scan and add image to the list then ocr the image with respect to the rotation policy.

Scan-and-ocr-repeatedly(Ctrl+F9) will scan and recognize images repeatedly. The process can be stopped using stop-all-process(Ctrl+F4) button.

*** Manipulation of OCR Output ***

New

One can start a new book or clear the entire text by selecting new(Ctrl+N) from the File menu. This will ask confirmation if text is not saved.

Open

To open a file in Lios, select the Open(Ctrl+O) button in File menu. This will cause the Open dialog to appear. Use your mouse or keyboard to select the file that you wish to open, and then click Open. The file that you've selected will open.

Save/Save As

To save a file in Lios, select the Save(Ctrl+S) button from the file menu.

If you are saving a new file, the Save As dialog will appear, and you can select a name for the file, as well as the directory where you would like the file to be saved.

*** Other Basic Options ***

This includes all text manipulation tools like cut, copy, paste, and delete text.

Punch

This is used to open text on a file and paste that text in the current cursor position. This will cause the open dialog to appear, and there you can select the file to be punched.

Append

Same as punch but the text will be added at the end of the current text.

Find

This can be used for finding out the word in text. Finding the word in Lios can be done via Opening the find tool by Choosing Find(Ctrl+F) item from Edit menu. Enter the text that you wish to search into the Find word field. To find the next match, click Next. To find the previous match, click Previous. One can see the context for current match above the Previous and Next buttons. Also the matched word will be highlighted.

Find and Replace

Editing text can be time consuming. To save time, Lios includes a Replace function that helps you to find and replace portions of text. In order to replace select Find-and-Replace(Ctrl+R) from Edit menu. Enter the text that you wish to replace into the word field. Enter the new replacement text into the Replace word field. To find the next match, click Next. To find the previous match, click Previous. One

can see the context for current match below the Previous and Next buttons. To replace only the current match, click Replace. To replace all occurrences of the searched-for text, click Replace All.

Spell checker
One can manually check the spelling of a text selection or the entire document.
To check the spelling of a text, the appropriate dictionaries must be installed. The spell check starts at the current cursor position, or at the beginning of the text selection. Click in the document, or select the text that you want to check. Choose Spell-Check(Ctrl+F7) from the Tools menu. When a possible spelling error is encountered, the Spell check dialog opens and Lios offers some suggested corrections. Do one of the following:
To accept a correction, click the suggestion, and then click change. Edit the sentence in the upper text box, and then click change. Or to add the unknown word to a user-defined dictionary, click Add to user dict.

*** Readability ***
# Font and Color : - General page includes options for changing Font, Color and Background colour and same options for highlighting. This can increase the readability of text.

Go-to-line
Select Go-to-line(Ctrl+L) from Edit menu. The go-to-line dialogue box will appear with current line number. Now type the line number and press Enter.

Go-to-page

Select Go-to-Page(Ctrl+L) from Edit menu. The Go-to-Page dialogue box will appear, type the page number and press Enter.

Text Reader

One can Read the output text using TTS via setting the cursor and activating the Start-Reader(F5) item from tools menu. One can change the speed, rate, voice and reading volume from general page of Lios preferences. One can increase or decrease the speech rate while reading using Increase-Reader-Speed (Ctrl+PageUp) and Decrease-Reader-Speed (Ctrl+PageDown) buttons on the same menu.

*** Utilities ***

Brightness Optimizer

One can find the apt brightness for a book using the brightness optimizer

brightness checker is one of the major utilities of Lios. different books demands different brightness level depending on the quality of the paper. ocr process results best on the brightness level set. It can be done using the brightness spin button in the recognition page in the Lios preferences.

If one is not familiar with determining the brightness of a book, can use the brightness optimizer in the scan menu. To start optimizer select Optimize-Scanner-Brightness from scan menu. Then Lios will ask you to set the following parameters.

Note that if mode of rotation in preferences is Full-Automatic or Partial-Automatic then lios will try to detect the rotation using a

single scan and pop-up Optimize Scanner-Brightness dialog.
In optimize dialog the first one is angle-to-be-rotated of rotation for optimizing, The second one Current-Value that is existing brightness(default value is 50), The third parameter is Start, it means, the value from which the brightness check starts(default start is 10). the forth one is distance, that is, difference between brightness level set for each consecutive scanning(default distance is 10). The forth parameter is End, it means, the value from which the brightness check Ends (default end is 90). If one does not change any value and click the optimize button.

The program will scan from 10 to 90 with a gap of 10. After each scanning, the total number of words detected will be announced. After ten scanning, one can opt for further accuracy in brightness changing the values or just click Optimize button to follow the changed default values. In the end click the apply button and ocr process will be done on the brightness level set. It is highly recommended that at the beginning of a new Book, this utility may be used. Also note that a typical page that represents the quality of the book may be selected and no movement of the page kept in the scanner may be made till the process is over.

Audio converter
One can use audio converter to change the text into small pieces of audio and save it as WAV Files. You can decide the speed, pitch, split time (to decide length of each WAV files) and volume before conversion.

Artha

One can findout the meaning of any word using artha. Select the word and Press Alt+Ctrl+W to get the meaning, synonyms, antonyms, derivatives, word related to them, and words similar to them.

Saving and Loading Preferences

Lios Preferences dialogue box contains three pages, General, Recognition and Scanning. One can save and load preferences for each book. Also one can reset the preferences using Restore item in Preferences menu.

*** Scanner Trouble Shooting ***

These options can be changed from scanning page of Lios Preferences.

Changing the driver

The next item for selecting driver. If one driver is not working one can select the other one.

Change to Lineart or binary

Lineart and binary are two modes which allow user to scan directly as black and white image. This is more appropriate for recognition. One can disable this but color scanning will take more time than lineart.

Cache Calibration

By enabling Cache Calibration one can avoid heating scanner lamp each time.

*** Disclaimer ***

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http://www.gnu.org/licenses/gpl-3.0.html
.
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
.
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
.
You should have received a copy of the GNU General Public License
along with this program. If not, see
<http://www.gnu.org/licenses/>.
.
On Debian systems, the complete text of the GNU General Public License

version 3 can be found in `/usr/share/common-licenses/GPL-3'.

FREE SOFTWARE FREE SOCIETY

4. OCRFeeder. Only available via Synaptic Package Manager.

Where Okular uses the ‘de facto’ Tesseract engine, OCR Feeder offers the user 3 additional OCR engines - Cuneiform, GOCR, and Ocrad. Details of each one (and more) here:
https://help.ubuntu.com/community/OCR
Open a file (Ctrl+ O)
Import page from Scanner (Shift+ Ctrl+ I)
Export (Shift Ctrl+ E) - options - default is ODT (LibreOffice Template), HTML,
PDF, Texto simples.
Recognize document (Shift+ Ctrl+ D)
Recognize page (Shift+ Ctrl+G)

Website: https://wiki.gnome.org/Apps/OCRFeeder

5. pdftk (pdf tool kit) - to fix corrupt pdfs and more.
Available via Synaptic Package Manager only.

Open a terminal or Konsole and once you have cd .. ‘d to the directory where the faulty pdf is enter:

pdftk broken.pdf output fixed.pdf

This was a life saver for me when I had a failing hard drive which corrupted an A-Level Physics Paper I was working on!

6. pdf Arranger. (Available in the Software channel.)